

# NAComatic

Effective: 23-Sep-2010

Expires: 18-Nov-2010



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# GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

## CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

**CRITICAL** information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

**FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE:** <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626  
800 Independence Ave., SW  
Washington, DC 20591  
Telephone 1-866-295-8236  
Fax 202-267-5322  
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

**NOTICE:** Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Effective Date	Airport Information	Airspace Information*
	Cut-off date	Cut-off date
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10
10 Mar 11	26 Jan 11	6 Jan 11
5 May 11	23 Mar 11	3 Mar 11
30 Jun 11	18 May 11	28 Apr 11

\*Including changes to preferred routes and graphic depictions on charts.

**FOR CHARTING ERRORS CONTACT:**

FAA, National Aeronautical Navigation Services  
SSMC-4 Sta. #4435  
1305 East West Highway  
Silver Spring, MD 20910-3281  
Telephone 1-800-626-3677  
Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at <http://aeronav.faa.gov>.  
See the FAQs prior to contact via toll free number.

**FOR PROCUREMENT CONTACT:**

FAA, National Aeronautical Navigation Services  
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Online at <http://aeronav.faa.gov>  
Email 9-AMC-Chartsales@faa.gov  
Telephone 1-800-638-8972  
Fax 301-436-6829  
or any authorized chart agent.

**New or Changed Information**—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.



# GENERAL INFORMATION

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## ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dsplcd	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	flt	flight
ATC	Air Traffic Control	flw	follow
ATCT	Airport Traffic Control Tower	Fri	Friday
Aug	August	FSS	Flight Service Station
AUW	All Up Weight (gross weight)	GA	glide angle
avbl	available	GCA	Ground Controlled Approach
bcn	beacon	GS	glide slope
blo	below	haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE

## CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invo	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
Igtd	lighted	rstd	restricted
Igts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rwy	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MCALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmpry	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather

## SAMPLE

1 2 3 4 5 6 7 8

**CITY NAME**  
**AIRPORT NAME** (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE

200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER  
 11 12 13 14 15 16 17 18 19 20 H-46, L-19C IAP, DIAP, AD

21 → RWY 18-36: H12004X200 (ASPH-CONC-GRVD)  
 S-90, D-160, 2D-300 PCN 80 R/B/W/T HIRL CL  
 RWY 18: LDIN: MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.  
 Thld dsplcd 300'. Trees. Rgt tfe. 0.3% up.  
 RWY 36: ALSF1. 0.4% down.  
 RWY 09-27: H6000X150 (ASPH) MIRL  
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 18	09-27	6500
RWY 36	09-27	5400

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504  
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

22 → **ARRESTING GEAR/SYSTEM**  
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')  
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

23 → **MILITARY SERVICE: A-GEAR** E-5 connected on dep end, disconnected on apch end. JASU 3(AM32A-60) 2(A/M32A-86)

24 →

25 → FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX ← 26

OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

27 28

29 → **AIRPORT REMARKS:** Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service (ADCUS) avbl.

30 → **MILITARY REMARKS:** ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15 minutes prior to ldg and after dep. Limited tran parking.

31 → **WEATHER DATA SOURCES:** AWOS-1 120.3 (202) 426-8000. LLWAS.

32 → **COMMUNICATIONS:** SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2  
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2  
 NAME RCO 112.2T 112.1R (NAME RADIO)  
 NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)  
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55  
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

33 → **AIRSPACE:** CLASS B See VFR Terminal Area Chart.

34 → **RADIO AIDS TO NAVIGATION:** NOTAM FILE ORL. VHF/DF etc FSS.  
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.  
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.  
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.  
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.  
 ASR/PAR (1200-0400Z†)

35 → **COMM/NAV/WEATHER REMARKS:** Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)  
 HELIPAD H2: H60X60 (ASPH)  
 HELIPORT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)  
 WATERWAY 15-33: 5000X425 (WATER)  
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of arpt not visible from twr and are required to ctc twr.

1

All bearings and radials are magnetic unless otherwise specified.  
 All mileages are nautical unless otherwise noted.  
 All times are Coordinated Universal Time (UTC) except as noted.  
 All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.  
 The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10

## SKETCH LEGEND

### RUNWAYS/LANDING AREAS

Hard Surfaced . . . . .	
Metal Surface . . . . .	
Sod, Gravel, etc. . . . .	
Light Plane, . . . . .	
Ski Landing Area or Water	
Under Construction . . . . .	
Closed . . . . .	
Helicopter Landings Area . . . . .	
Displaced Threshold . . . . .	
Taxiway, Apron and Stopways . .	

### MISCELLANEOUS BASE AND CULTURAL FEATURES

Buildings . . . . .	
Power Lines . . . . .	
Fence . . . . .	
Towers . . . . .	
Tanks . . . . .	
Oil Well . . . . .	
Smoke Stack . . . . .	
Obstruction . . . . .	
Controlling Obstruction . . . . .	
Trees . . . . .	
Populated Places . . . . .	
Cuts and Fills . . . . .	
Cliffs and Depressions . .	
Ditch . . . . .	
Hill . . . . .	

### RADIO AIDS TO NAVIGATION

VORTAC . . . . .		VOR . . . . .	
VOR/DME . . . . .		NDB . . . . .	
TACAN . . . . .		NDB/DME . . . . .	

### MISCELLANEOUS AERONAUTICAL FEATURES

Airport Beacon . . . . .	
Wind Cone . . . . .	
Landing Tee . . . . .	
Tetrahedron . . . . .	
Control Tower . . . . .	

### APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g., (A1) Negative symbology, e.g., (A1) indicates Pilot Controlled Lighting (PCL).

Runway Centerline Lighting . . . . .	
(A) Approach Lighting System ALSF-2 . .	
(A1) Approach Lighting System ALSF-1 . .	
(A2) Short Approach Lighting System SALS/SALSF . . . . .	
(A3) Simplified Short Approach Lighting System (SSALR) with RAIL . . . . .	
(A4) Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF) . . . . .	
(A5) Medium Intensity Approach Lighting System (MALSR) and RAIL . . . . .	
(Y) Omnidirectional Approach Lighting System (ODALS) . . . . .	
(D) Navy Parallel Row and Cross Bar . .	
(F) Air Force Overrun . . . . .	
(V) Visual Approach Slope Indicator with Standard Threshold Clearance provided	
(V2) Pulsating Visual Approach Slope Indicator (PVASI)	
(V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft	
(V4) Tri-color Visual Approach Slope Indicator (TRCV)	
(V5) Approach Path Alignment Panel (APAP)	
(P) Precision Approach Path Indicator (PAPI)	

**LEGEND**

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navajids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots at an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

**① CITY/AIRPORT NAME**

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

**② ALTERNATE NAME**

Alternate names, if any, will be shown in parentheses.

**③ LOCATION IDENTIFIER**

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

**④ OPERATING AGENCY**

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARNG	US Army National Guard	P	US Civil Airport Wherein Permit Covers
CG	US Coast Guard		Use by Transient Military Aircraft
CIV/MIL	Joint Use Civil/Military	PVT	Private Use Only (Closed to the Public)
DND	Department of National Defense Canada		

**⑤ AIRPORT LOCATION**

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

**⑥ TIME CONVERSION**

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

**⑦ GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)**

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

**⑧ CHARTS**

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

**⑨ INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAM**

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5-4-5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

**⑩ AIRPORT SKETCH**

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

**⑪ ELEVATION**

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

**⑫ ROTATING LIGHT BEACON**

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

**⑬ SERVICING—CIVIL**

S1: Minor airframe repairs.	S5: Major airframe repairs.
S2: Minor airframe and minor powerplant repairs.	S6: Minor airframe and major powerplant repairs.
S3: Major airframe and minor powerplant repairs.	S7: Major powerplant repairs.
S4: Major airframe and major powerplant repairs.	S8: Minor powerplant repairs.

**⑭ FUEL**

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP-4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP-5 military specification) Kerosene with FS-11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS-II*, FP** minus 40° C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP-8.
A+	Jet A, Kerosene, with FS-II*, FP** minus 40°C.	J	(Jet Fuel Type Unknown)
A1	Jet A-1, Kerosene, without FS-II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A-1, Kerosene with FS-II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS-II*, FP** minus 50° C.		

\*(Fuel System Icing Inhibitor)

\*\* (Freeze Point)

**NOTE:** Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

**⑮ OXYGEN—CIVIL**

OX 1 High Pressure	OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure	OX 4 Low Pressure—Replacement Bottles

**⑯ TRAFFIC PATTERN ALTITUDE**

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

## ⑪ AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)

407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL)

407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

407-975-1760

Southwest East Sector (OK and eastern TX)

407-975-1840

Southwest West Sector (Western TX, NM and AZ)

407-975-1820

Pacific Sector (WA, OR, CA, HI and AK)

407-975-1800

## ⑫ CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

### 14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

### 14 CFR—PART 139 CERTIFICATED AIRPORTS

#### INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

<i>Airport Index</i>	<i>Required No. Vehicles</i>	<i>Aircraft Length</i>	<i>Scheduled Departures</i>	<i>Agent + Water for Foam</i>
A	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H <sub>2</sub> O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥5 ----- <5	Index A + 1500 gal H <sub>2</sub> O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥5 ----- <5	Index A + 3000 gal H <sub>2</sub> O
D	3	≥159', <200' ----- >200'	<5	Index A + 4000 gal H <sub>2</sub> O
E	3	≥200'	≥5	Index A + 6000 gal H <sub>2</sub> O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

## ⑬ NOTAM SERVICE

All public use landing areas are provided NOTAM “D” (distant dissemination) and NOTAM “L” (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. “NOTAM FILE IAD”. See AIM, Basic Flight Information and



ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) [www.notams.jcs.mil](http://www.notams.jcs.mil).

## ② FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

## ② RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

### RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

### RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

### RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

### RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
  - R — Rigid
  - F — Flexible
- (3) The pavement subgrade category:
  - A — High
  - B — Medium
  - C — Low
  - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
  - W — High, no limit
  - X — Medium, limited to 217 psi
  - Y — Low, limited to 145 psi
  - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
  - T — Technical evaluation
  - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

#### RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

NOTE: Civil ALSF2 may be operated as SALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

## VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL	APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precision Approach Path Indicator			
P2L	2-identical light units placed on left side of runway	P4L	4-identical light units placed on left side of runway
P2R	2-identical light units placed on right side of runway	P4R	4-identical light units placed on right side of runway
PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.			
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI—Simplified Abbreviated Visual Approach Slope Indicator			
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visual Approach Slope Indicator			
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., –GA 3.5° TCH 37'.

## PILOT CONTROL OF AIRPORT LIGHTING

<u>Key Mike</u>	<u>Function</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07–122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, “Basic Flight Information and ATC Procedures,” for detailed description of pilot control of airport lighting.

## RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

## RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. “Rgt tfc”—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

## LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for “Land and Hold Short Operations.” These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

## RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

## 22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

## BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

## UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

## FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

## UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

## OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

**23 MILITARY SERVICE**

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

**24 JET AIRCRAFT STARTING UNITS (JASU)**

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

## ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire

## AIR STARTING UNITS

AM32-95 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia  
 AM32A-95 150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)  
 LASS 150 +/- 5 lb/min @ 49 +/- 2 psia  
 MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press  
 MC-1 15 cfm, 3500 psia  
 MC-1A 15 cfm, 3500 psia  
 MC-2A 15 cfm, 200 psia  
 MC-11 8,000 cu in cap, 4000 psig, 15 cfm

## COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen  
 DC: 28v, 700 amp  
 AIR: 60 lb/min @ 40 psig @ sea level  
 AM32A-60\* AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia  
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva  
 DC: 28v, 500 amp, 15 kw  
 AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia  
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire  
 DC: 28v, 200 amp, 5.6 kw  
 AM32A-60B\* AIR: 130 lb/min, 50 psia  
 AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire  
 DC: 28v, 200 amp, 5.6 kw

\*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

## USN JASU

### ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;  
 AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.  
 NC-10A/A1/B/C DC: 750 amp constant, 1000 amp intermittent, 28v;  
 AC: 90 kva, 115/200v, 3 phase, 400 Hz.

### AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi.  
 MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.  
 WELLS AIR START SYSTEM 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

## COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.

## JASU (ARMY)

59B2-1B 28v, 7.5 kw, 280 amp.

## OTHER JASU

### ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase  
 CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase  
 CE14 AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp  
 CE15 DC 22-35v, 500 amp continuous 1100 amp intermittent  
 CE16 DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

### AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min

## COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp  
 AIR 112.5 lb/min, 47 psig

### ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire  
 C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire  
 E3 DC 28v/10kw

### AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)  
 MA-1 150 Air HP, 115 lb/min 50 psia  
 MA-2 250 Air HP, 150 lb/min 75 psia

## CARTRIDGE:

MXU-4A USAF

## 14 FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at [www.desc.dla.mil/Static/ProductsAndServices.asp](http://www.desc.dla.mil/Static/ProductsAndServices.asp); click on the Commercial Airports button.

See legend item 14 for fuel code and description.

## 26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

### CODE

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

### OXYGEN:

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
OXRB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

### NITROGEN:

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

## 27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

## 28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

## **29 AIRPORT REMARKS**

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

## **30 MILITARY REMARKS**

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

## **31 WEATHER DATA SOURCES**

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWSR—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers.

SAWSR—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

## 32 COMMUNICATIONS

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remotized facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

### TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol ® indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the



VHF radio to contact the appropriate ATC facility or six “key clicks” to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol **(R)** indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as “Wx obsn svc 1900-0000Z+” or “other times” may be used when no specific time is given. PMSV facilities manned by forecasters are considered “Full Service”. PMSV facilities manned by weather observers are listed as “Limited Service”.

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter “X” indicate frequency available on request.

## **(33) AIRSPACE**

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

**AIRSPACE: CLASS C** svc “times” ctc **APP CON** other times CLASS E:

or

**AIRSPACE: CLASS D** svc “times” other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700’ or 1200’ AGL. This will be formatted as:

**AIRSPACE: CLASS C** svc “times” ctc **APP CON** other times CLASS G, with CLASS E 700’ (or 1200’) AGL & abv:

or

**AIRSPACE: CLASS D** svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv:

or

**AIRSPACE: CLASS E** svc “times” other times CLASS G with CLASS E 700’ (or 1200’) AGL & abv.

**NOTE: AIRSPACE SVC “TIMES” INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS.** Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

**NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.**

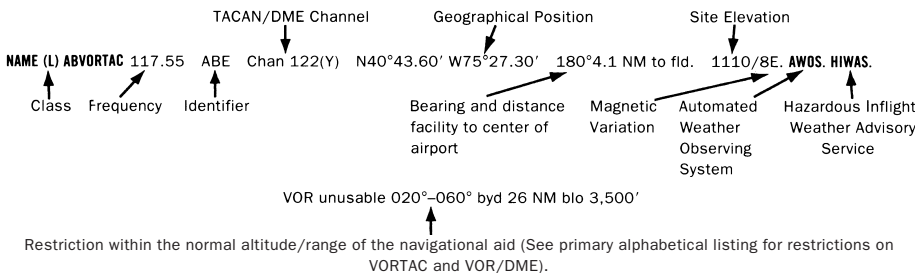
Class E 700’ AGL (shown as magenta vignette on sectional charts) and 1200’ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700’/1200’ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

# 34 RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDS.

NAVAID information is tabulated as indicated in the following sample:



Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information.

**HIWAS**—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's throughout the U.S.

**ASR/PAR**—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

## RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance (NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.

## ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance  
Classification Code

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

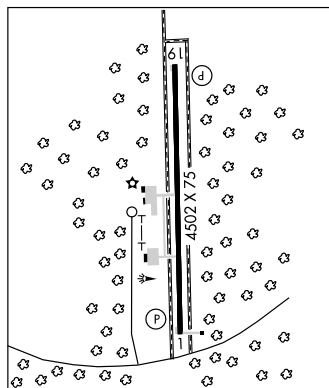
TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

2								
DIRECTORY LEGEND								
TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

**(35) COMM/NAV/WEATHER REMARKS:**  
 These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

**AHOSKIE****TRI-CO** (ASJ) 9 W UTC-5(-4DT) N36°17.85' W77°10.25'68 B **FUEL** 100LL, JET A1+ NOTAM FILE ASJ**RWY 01-19:** H4502X75 (ASPH) S-35, D-45 MIRL**RWY 01:** REIL. PAPI(P2L)—GA 3.05° TCH 39'. Road.**RWY 19:** REIL. PAPI(P2L)—GA 3.0° TCH 36'. Tree.**AIRPORT REMARKS:** Attended Mon-Sat 1400Z†-dusk, Sun 1900Z†-dusk. Rwy 01-19 -4' ditch 120' left and right of centerline, REIL Rwy 01 OTS indef. REIL Rwy 19 OTS indef. PAPI Rwy 19 OTS indef. ACTIVATE MIRL Rwy 01-19, REIL Rwy 01 and Rwy 19—CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.075 (252) 345-2967.**COMMUNICATIONS:** CTAF/UNICOM 122.8**WASHINGTON CENTER APP/DEP CON** 123.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**COFIELD (L) VORTAC** 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 262° 15.2 NM to fld. 70/09W.

**WASHINGTON****L-35C, 36G****IAP****AIR HARBOR** (See GREENSBORO)**AIRLI** N34°11.48' W77°51.98' NOTAM FILE ILM.**CHARLOTTE****NDB (LOM)** 281 IL 346° 5.1 NM to Wilmington Intl. Unmonitored when twr clsd.

**ALBEMARLE****STANLY CO**

(VUJ) 4 NE UTC-5(-4DT) N35°25.00' W80°09.05'

CHARLOTTE

609 B S4 FUEL 100LL, JET A1+ OX 2 TPA—See Remarks NOTAM FILE VUJ

H-9B, 12H, L-25E, 36E

RWY 04R-22L: H5500X100 (ASPH) D-130, 2S-175 MIRL 0.6% up SW IAP

RWY 04R: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 22L: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tree.

RWY 04L-22R: H3500X75 (ASPH) D-130, 2S-175 MIRL  
0.3% up SW

RWY 04L: Fence.

RWY 22R: Trees.

**AIRPORT REMARKS:** Attended 1300-0100Z±. Fuel avbl from FBO 1300-0100Z± other times PPR, C704-982-9013. Self-service fuel available 24 hrs with credit card. Government credit card accepted. Be alert for high speed low level mil acft in vicinity. Frequent ngmt mil opr. Frequent assault ops to Rwy 22R. Deer and bird hazard. TPA—1709 (1100), rectangular 2309 (1700), overhead 2809 (2200). No maintenance personnel or equipment. No cargo handling equipment, hangar space and security avbl. Fire protection limited. Regional Training Site (RTS) support coordinated thru 145 AW/CE DSN 231-4229. Air National Guard ramp rstd to mil use only with PPR. Maximum three C-130 acft. Ctc 145 AW Afd Management DSN 231-4177, C704-391-4177. ACTIVATE MIRL Rwy 04L-22R and Rwy 04R-22L and REIL Rwy 04R and Rwy 22L—CTAF. PAPI Rwy 04R and Rwy 22L on during twr opr, other times—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 128.175 (704) 986-2097.**COMMUNICATIONS:** CTAF 126.275 UNICOM 123.0

CHARLOTTE APP/DEP CON 128.32 CLNC DEL 128.5

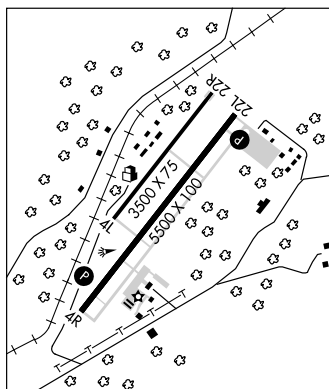
TOWER 126.275 (Mon-Fri 1300-0300Z±) except holidays or by NOTAM. GND CON 121.75 CLNC DEL 121.75

**AIRSPACE:** CLASS D svc Mon-Fri 1300-0300Z± except holidays or by NOTAM, other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 297° 30.2 NM to fld. 590/03W.

ALLER NDB (MHW/LOM) 346 VU N35°29.35' W80°05.01' 223° 5.5 NM to fld.

ILS 110.55 I-VUJ Rwy 22L. LOM ALLER NDB. GS unusable blo 900' MSL.

**COMM/NAV/WEATHER REMARKS:** Charlotte CLNC DEL OTS indef. Twr svc provided by Air Guard.**ALBERT J. ELLIS**

(See JACKSONVILLE)

**ALLER**

N35°29.35' W80°05.01' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW/LOM) 346 VU 223° 5.6 NM to Stanly Co.

L-25E, 36F

**ALWOOD**

N35°42.41' W77°22.31' NOTAM FILE PGV.

CHARLOTTE

NDB (MHW) 230 AQE 198° 4.3 NM to Pitt-Greenville.

L-35C

**ANDREWS****WESTERN CAROLINA RGNL**

(RHP) 2 W UTC-5(-4DT) N35°11.71' W83°51.78'

ATLANTA

1697 B S4 FUEL 100LL, JET A, A1+ OX 1, 2 NOTAM FILE RHP

H-9B, 12G, L-25B

RWY 08-26: H5500X100 (ASPH) S-25, D-45 MIRL 0.3% up NE IAP

RWY 08: REIL. PAPI(P2L)—GA 3.5° TCH 38'. Railroad. Rgt tfc.

RWY 26: PAPI (P2L)—GA 4.0° TCH 44'. Trees.

**AIRPORT REMARKS:** Attended Nov-Mar 1300-2200Z±, Apr-Oct 1300-0000Z±. For fuel svc after hrs call 828-321-5114. Low flying acft overfly arpt. For information ctc FSS. Rwy 08, 8' drop-off, 108 ft from thld both sides in rwy safety area. Twr unlgtd. ACTIVATE REIL Rwy 08—CTAF. PAPI Rwy 08 and Rwy 26 opr continuously. MIRL Rwy 08-26 on dusk-dawn. To incr ints—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.675 (828) 321-1049.**COMMUNICATIONS:** CTAF/UNICOM 122.8

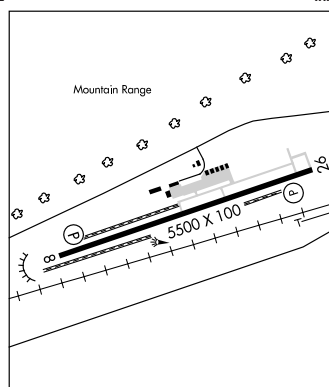
ATLANTA CENTER APP/DEP CON 134.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MCN.

HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58'

W83°54.94' 010° 15.3 NM to fld. 3660/00E.

HIWAS.



**ANSON CO—JEFF CLOUD FLD** (See WADESBORO)**ASHE CO** (See JEFFERSON)**ASHEBORO RGNL** (HBI) 6 SW UTC-5(-4DT) N35°39.27' W79°53.69'

671 B S4 FUEL 100LL, JET A1+ NOTAM FILE HBI

RWY 03-21: H5501X100 (ASPH) S-20 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.5° TCH 50'.

RWY 21: REIL. PAPI(P2L)—GA 3.0° TCH 35'. Trees.

**AIRPORT REMARKS:** Attended Oct-May 1300Z±-dusk, Jun-Sep 1300Z±-0100Z±. 24 hr self svc avbl with credit card. Rwy 03 has 40' dropoff 400' from thld. Terrain rising south of the arpt.

ACTIVATE REIL Rwy 03 and 21, PAPI Rwy 03 and Rwy 21 after 0400Z±, MIRL Rwy 03-21—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.275 (336) 626-7933.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **GREENSBORO APP/DEP CON** 118.5

GCO 130.70 (FLIGHT SERVICES)

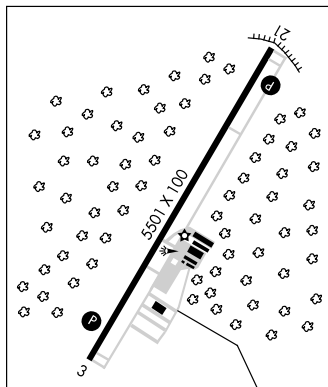
**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 173° 23.8 NM to fld. 879/03W. HIWAS.

**CITY LAKE NDB (MHW)** 266 CQJ N35°42.98' W79°51.92'

209° 4 NM to fld. NOTAM FILE HBI.

**CHARLOTTE**  
H-9B, 12H, L-25E, 36F  
IAP

**ASHEE** N36°26.04' W81°19.32' NOTAM FILE GEV.**NDB (MHW/LOM)** 410 JU 276° 4.7 NM to Ashe Co.

**CINCINNATI**  
L-25D

**ASHEVILLE RGNL** (AVL) 9 S UTC-5(-4DT) N35°26.17' W82°32.51'

2165 B S2 FUEL 100LL, JET A OX 3 Class I, ARFF Index B NOTAM FILE AVL

**ATLANTA**  
H-9B, 12G, L-25C  
IAP, AD

RWY 16-34: H8001X150 (ASPH-GRVD) S-120, D-160, 2S-175, 2D-260 HIRL CL

RWY 16: MALSR. PAPI(P4L)—GA 3.0° TCH 54'. 0.4% down.

RWY 34: MALSR. TDZL. VASI(V4L)—GA 2.8° TCH 57'. Rgt tfc.

0.9% up.

**AIRPORT REMARKS:** Attended continuously. PPR for unscheduled air carrier opr with more than 30 passenger seats 0400-1200Z±; call arpt manager 828-684-2226. Rwy 16 touchdown rwy visual range avbl. HIRL preset to off when twr clsd, to increase ints and ACTIVATE HIRL and MALSR Rwy 16 and Rwy 34—CTAF.

**WEATHER DATA SOURCES:** ASOS (828) 681-0131. LLWAS**COMMUNICATIONS:** CTAF 121.1 ATIS 120.2 UNICOM 122.95Ⓡ **APP/DEP CON** 125.8 (340-159°) 124.65 (160-339°) 1130-0400Z±**ATLANTA CENTER APP/DEP CON** 132.625 (0400-1130Z±)**TOWER** 121.1 (1130-0400Z±) **GND CON** 121.9**AIRSPACE:** CLASS C svc 1130-0400Z± ctc **APP CON** other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SUGARLOAF MOUNTAIN (L) VORTAC** 112.2 SUG Chan 59

N35°24.39' W82°16.12' 280° 13.5 NM to fld.

3970/02W.

**BROAD RIVER NDB (HW)** 379 BRA N35°16.37' W82°28.26'

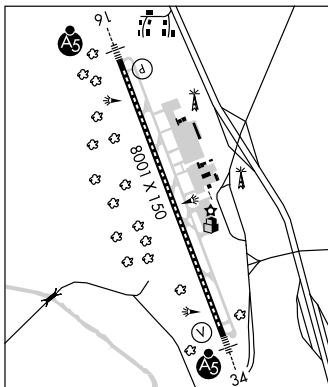
344° 10.4 NM to fld. NOTAM FILE AVL. (Unmonitored when twr closed).

**KEANS NDB (LOM)** 357 IM N35°31.97' W82°35.25' 163° 6.2 NM to fld.**ILS 110.5** I-AVL Rwy 34. Class IB. (Unmonitored when twr clsd).

**ILS 110.9** I-IMO Rwy 16. Class IA. LOM KEANS NDB. (LOC only). ILS not avbl when twr clsd. Localizer unusable byd 20° rgt of course. Localizer unusable within .10 NM from thld.

**ASR** (1130-0400Z±)

**COMM/NAV/WEATHER REMARKS:** Communications unavailable blo 6,000' except by RALEIGH RADIO on 122.1R when avbl app con clsd. ASOS wind unreliable when twr closed.

**AVERY CO/MORRISON FLD** (See SPRUCE PINE)



**BARRETTS MOUNTAIN** N35°52.13' W81°14.43' NOTAM FILE RDU.  
 (L) VOR/DME 110.8 BZM Chan 45 230°10.6 NM to Hickory Rgnl. 1880/06W.  
 RCO 122.1R 110.8T (RALEIGH RADIO)

CHARLOTTE  
 L-35B  
 IAP

## BEAUFORT

**MICHAEL J. SMITH FLD** (MRH) 1 N UTC-5(-4DT) N34°44.01' W76°39.64'

CHARLOTTE  
 L-35B  
 IAP

11 B S4 FUEL 100LL, JET A1+ OX 1,2 LRA NOTAM FILE MRH

RWY 08-26: H4249X100 (ASPH) D-60 MIRL

RWY 08: Brush. RWY 26: Trees.

RWY 03-21: H4191X150 (ASPH) S-12.5 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Thld dsplcd 186'. Road.

RWY 21: REIL. PAPI(P2L)—GA 3.0°TCH 24'. Trees.

RWY 14-32: H4001X100 (ASPH) S-12.5

RWY 14: Boat. RWY 32: Thld dsplcd 490'. Trees.

**AIRPORT REMARKS:** Attended 1300Z†-dusk. For svc after hrs call 252-728-2323. Deer and birds on and invof arpt. Noise abatement procedures in effect. Rwy 08-26 is preferred rwy, wind and safety permitting. Avoid overflight of Beaufort Waterfront. Ctc arpt manager for further info 252-728-1928. ACTIVATE MIRL Rwy 03-21 and Rwy 08-26, PAPI Rwy 03 and Rwy 21, REIL Rwy 03 and Rwy 21—CTAF.

**WEATHER DATA SOURCES:** ASOS 135.375 (252) 728-2055.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CHERRY POINT APP/DEP CON 124.1 CLNC DEL 125.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

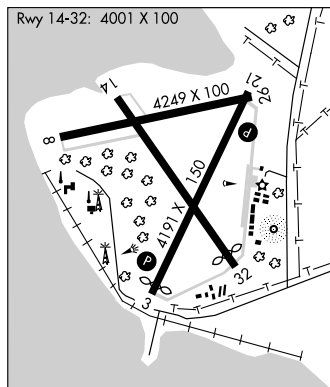
KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 136° 58.4 NM to fld. 106/05W.

MOREHEAD NDB (MHW) 269 MRH N34°43.87' W76°39.73'

at fld. NOTAM FILE MRH. NDB unmonitored.

ILS 108.5 I-BFO Rwy 26. Localizer only.



**BILLY MITCHELL** (See HATTERAS)

**BLADENBORO** (3W6) 0 E UTC-5(-4DT) N34°33.01' W78°46.98'

CHARLOTTE

115 NOTAM FILE RDU

RWY 02-20: 2850X135 (TURF)

RWY 02: Trees. RWY 20: Trees.

**AIRPORT REMARKS:** Unattended. Rwy 20 has 90' trees 100' from thld offset 30' right of centerline and 90' trees 250' from thld offset 100' left of centerline. 80' trees west edge of rwy thld to thld and 80' trees east edge of Rwy 02 from thld to 500'.

**COMMUNICATIONS:** CTAF 122.9

**BOGUE MCALF** (NJM) MC 4 E UTC-5(-4DT) N34°41.43' W77°01.78'

CHARLOTTE

21 B TPA—See Remarks NOTAM FILE RDU Not insp.

L-35B

RWY 05-23: 3997X96 (PSP) S-57, D-150, 2S-175 HIRL CL

DIAP

RWY 05: MALSF. OLS. TDZL. RWY 23: MALSF. OLS. TDZL.

**ARRESTING GEAR/SYSTEM**

RWY 05 M21(B) (660')

M21(B) (652') RWY 23

**MILITARY SERVICE: LGT** Rwy 05 and 23 apch lgt NSTD. Apch lgt have 10 bars 100 ft apart, first 5 bars have strobe lgt in center. **A-GEAR** All non-emerg full stop lgt by tail hook acft are arrested and rqr Ldg Signal Officer (LSO). LSO avbl with 24 hr notice. **FUEL J5 FLUID SP TRAN ALERT** No hangar, acft svc or tran maintenance avbl. Hot refueling rqr qualified crew member present to assist.

**MILITARY REMARKS:** Opr hrs published by 2nd Marine Air Wing. Ctc Air OPS req schedule/usage DSN 582-0674, C252-466-0674. See FLIP AP/1 Supplementary Arpt Remarks. **CAUTION** All rwy and twy sfc consist of AM-2 aluminum matting coated with non-skid all wx sfc, braking action good, runway condition reading 19-25. **TFC PAT** Left tfc Rwy 05, TPA-1000(979) 1½ NM abeam and outside White Oak Elementary School, Rwy 23 1000(979) 1½ NM abeam. **MISC** Vertical tkf of AV8 acft from Confined Area Landing (CAL) sites located 800' SE of apch end Rwy 23.

**COMMUNICATIONS: SFA CTAF** 126.45

① **CHERRY POINT APP/DEP CON** 119.35 377.175 (W) 124.1 268.7 (E)

**TOWER** 126.45 256.875 (opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674) **GND CON** 262.6 **CLNC DEL** 262.6 **GCA** 328.4

**PMSV METRO** 344.6 (Radar wx advisory svc less than continuous, by special req.)

**AIRSPACE: CLASS D** svc opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674 other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**CHERRY POINT MCAS (L) TACAN** Chan 75 NKT (112.8) N34°54.13' W76°52.49' 220° 14.8 NM to fld. 28/9W.

**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima. Radar svc avbl by PPR only, during scheduled fld hrs, ctc twr DSN 582-0697, C252-466-0697 for PPR.

**BOONE TNB** N36°11.93' W81°39.09'/3038.

CHARLOTTE

AWOS-3 118.525 (828) 268-8921

L-25C

**BROAD RIVER** N35°16.37' W82°28.26' NOTAM FILE AVL.

ATLANTA

NDB (HW) 379 BRA 344° 10.4 NM to Asheville Rgnl.

L-25C

**BRUNSWICK CO** (See OAK ISLAND)

**BURLINGTON-ALAMANCE RGNL** (BUY) 3 SW UTC-5(-4DT) N36°02.91' W79°28.49'

CINCINNATI

617 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE BUY

L-25E, 36F

RWY 06-24: H4999X99 (ASPH) S-30, D-36, 2D-57 HIRL 0.6% up SW

IAP

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 24: REIL. PAPI(P2L)—GA 3.0° TCH 27'. Trees.

**AIRPORT REMARKS:** Attended 1300-0100Z†. CLOSED Christmas day. After hrs fuel or emergency only 919-667-3293. PAEW SE Rwy 06-24 SR-SS Mon-Fri; crane located SE Rwy 24. Deer and water-fowl invof arpt. Rwy 06, 15' drop off 50' fm thld 220' left of centerline. PAPI Rwy 06 and Rwy 24 opr continuously. **ACTIVATE** REIL Rwy 06 and Rwy 24—CTAF. HIRL Rwy 06-24 on dusk-dawn, to change ints—CTAF.

**WEATHER DATA SOURCES:** ASOS 135.325 (336)570-9813.

**COMMUNICATIONS: CTAF/UNICOM** 122.975

**RCO** 122.1R 116.2T (RALEIGH RADIO)

① **GREENSBORO APP/DEP CON** 118.5 **CLNC DEL** 120.25

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BUY.

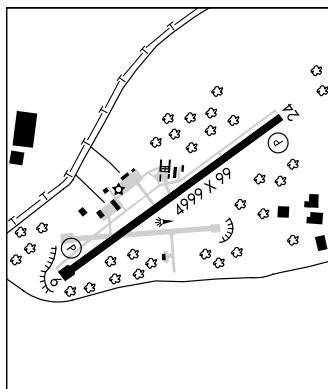
**LIBERTY (L) VORTAC** 113.0 **LIB** Chan 77 N35°48.70'

W79°36.76' 028° 15.7 NM to fld. 830/03W. NOTAM FILE RDU.

**HIMUN NDB(MHW/LOM)** 361 **HB** N35°58.69' W79°35.08'

044° 6.8 NM to fld. NOTAM FILE BUY.

**ILS** 111.35 **I-HBJ** Rwy 06. **LOM HIMUN NDB.** Unmonitored.



**CAMP** N34°16.31' W78°42.84' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW) 227 **CPC** at Columbus Co Muni.

L-35A

Unmonitored Mon-Sat 2300-1300Z† and Sun 2300-1400Z†.

**CANDLER****MEYERS HELIPORT** (N39) 4 S UTC-5(-4DT) N35°30.37' W082°44.05'

ATLANTA

2350 NOTAM FILE RDU

HELIPAD H1: 80X40 (CONC)

HELIPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

**CAROLINA BEACH** N34°06.38' W77°57.68' NOTAM FILE RDU.

CHARLOTTE

NDB (HW) 216 CLB 022° 10 NM to Wilmington Intl.

H-9C, L-23A, 35A

Unmonitored when Wilmington twr closed.

**CASWELL** (See YANCEYVILLE)**CAUSEY** (See LIBERTY)**CHAPEL HILL****HORACE WILLIAMS** (IGX) 1 N UTC-5(-4DT) N35°56.10' W79°03.96'

CHARLOTTE

512 B FUEL 100LL, JET A+ NOTAM FILE IGX

L-36F

RWY 09-27: H4005X75 (ASPH) S-12.5 MIRL 0.6% up W

IAP

RWY 09: REIL. PAPI(P4L)—GA 4.0° TCH 21'. Trees.

RWY 27: REIL. PAPI (P4L)—GA 4.0° TCH 23'. Trees. Thld displcd 730'. Rgt tfc.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-0200Z†, Sat-Sun

1400-0200Z†. Arpt unattended Christmas and New Years day.

Arpt CLOSED to pure Jet powered aircraft, except for university users transporting persons on official university business which must call arpt manager 919-962-1337 for instructions. Arpt CLOSED to acft 12,500 lbs or greater, gliders, balloons, miniature acft, ultralights and parachute jumping activity. Deer on and in vicinity of arpt. No recreational or training flights from

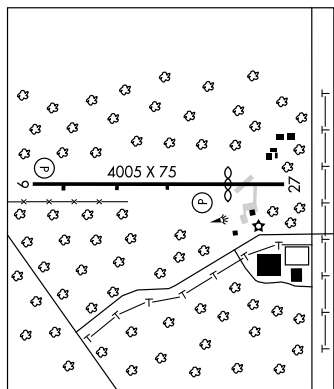
0200-1100Z†; Clsd to transient acft ops 0200-1100Z† except acft on university or hospital business, all transient acft must have 24 hr PPR call arpt manager 919-962-1337. Parallel turf taxiway unusable. Rwy 09 has a 60' dropoff 200' from thld left and right of centerline in rwy safety area. Be alert for rough turf areas marked with tires painted white. No practice apchs/lids without prior permission call 919-962-1337. Rwy 09-27 displcd thld unlgtd; 3495 ft useable at ngt. Rwy 27 has 200 ft overrun. Rwy 27 rgt tfc pattern only maintain 2000' AGL. ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27—CTAF.

**WEATHER DATA SOURCES:** ASOS 134.575 (919) 942-2538.**COMMUNICATIONS:** CTAF/UNICOM 123.0

® RALEIGH APP/DEP CON 132.35 CLNC DEL 126.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW	117.2	RDU	Chan 119	N35°52.35' W78°47.00'	289° 14.3 NM to fld.
429/04W.					



## CHARLOTTE

CHARLOTTE/DOUGLAS INTL (CLT) 4 W UTC-5(-4DT) N35°12.82' W80°56.94'

CHARLOTTE

748 B S4 FUEL 100LL, JET A OX 1 LRA Class I, ARFF Index D  
NOTAM FILE CLTH-9B, 12G, L-25D, 36E  
IAP, ADRWY 18C-36C: H10000X150 (CONC-WC) S-140, D-200, 2S-175,  
2D-350, 2D/2D2-650 HIRL CL

RWY 18C: MALSR. PAPI(P4R)—GA 3.0° TCH 69'. Road. 0.6% down.

RWY 36C: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.4% up.

RWY 18R-36L: H9000X150 (CONC-GRVD) S-140, D-200, 2S-175,  
2D-175, 2D/2D2-350 HIRL

RWY 18R: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 46'.

RWY 36L: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 55'.

RWY 18L-36R: H8676X150 (ASPH-CONC-GRVD) S-140, D-200,  
2S-175, 2D-350, 2D/2D2-650 HIRL CLRWY 18L: REIL. VASI(V6R)—Upper GA 3.25° TCH 90.9'. Lower GA  
2.75° TCH 52.4'. Railroad.

RWY 36R: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 71'. 0.3% up.

RWY 05-23: H7502X150 (ASPH-CONC-GRVD) S-200, D-350,  
2S-175, 2D-650 HIRL 0.5% up NE

RWY 05: MALSR. PAPI(P4L)—GA 3.0° TCH 89'. Trees.

RWY 23: REIL. VASI(V4R)—Upper GA 3.25° TCH 93.7'. Lower GA  
3.0° TCH 55.8'.

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-7502 TODA-7502 ASDA-7092 LDA-7092

RWY 18L: TORA-8676 TODA-8676 ASDA-8676 LDA-8676

RWY 18C: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY 18R: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 23: TORA-7502 TODA-7502 ASDA-7502 LDA-7502

RWY 36L: TORA-9000 TODA-9000 ASDA-9000 LDA-9000

RWY 36C: TORA-10000 TODA-10000 ASDA-10000 LDA-10000

RWY 36R: TORA-8676 TODA-8676 ASDA-8676 LDA-8676

## ARRESTING GEAR/SYSTEM

RWY 36R: EMAS

**AIRPORT REMARKS:** Attended continuously. Be alert for flocks of migratory birds on and in/ovf arpt. Noise abatement procedure in effect 0400-1200Z; land Rwy 05 takeoff Rwy 23. Twy E13 closed indef. Rwy 18L touchdown, midfield and rollout runway visual range avbl. Rwy 36R touchdown, midfield and rollout runway visual range avbl. Rwy 18C touchdown, midfield, rollout runway visual range avbl. Rwy 36C touchdown, midfield and rollout runway visual range avbl. Rwy 18R-36L touchdown avbl. ASDE-X surveillance system in use: Pilots should opt transponders with mode C on all twys and rwys. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Noise Abatement Procedures and Continuous Power Facilities.

**WEATHER DATA SOURCES:** ASOS (704)359-0235. HIWAS 115.0 CLT. LLWAS. TDWR.**COMMUNICATIONS:** D-ATIS ARR 121.15 D-ATIS DEP 132.1 UNICOM 122.95

CHARLOTTE RCO 122.4 (RALEIGH RADIO)

Ⓡ CHARLOTTE APP/DEP CON 134.75 (246°-360° 8000' and blo) 128.32 (001°-119° 8000' and blo) 120.05  
(120°-245° 8000' and blo) 124.0 (075°-245° abv 8000') 120.5 (246°-074° abv 8000')

CHARLOTTE TOWER 118.1 (Rwys 18L-36R and 05-23) 126.4 (Rwy 18C-36C) 133.35 (Rwys 18R and 36L)

GND CON 121.9 (360°-179°) 121.8 (180°-359°) CLNC DEL 127.15

**AIRSPACE:** CLASS B See VFR Terminal Area Chart.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

(L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 022° 1.5 NM to fld. 732/05W. HIWAS.

DME unusable:

015°-050° byd 25 NM blo 3000'.

050°-100° byd 25 NM blo 2500'.

270°-350° byd 20 NM blo 5000'.

FT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.34' W80°57.29' 004° 13.5 NM to fld. 645/02W.

NOTAM FILE AND. SHUTDOWN.

TRYON NDB (LOM) 242 CL N35°09.49' W81°01.24' 056° 5.1 NM to fld.

ILS 110.95 I-CLT Rwy 05. Class IE. LOM TRYON NDB.

ILS 111.3 I-PEP Rwy 18C. Class IA.

ILS 110.35 I-VKQ Rwy 18L. LOC unusable byd 25° left and right of course.

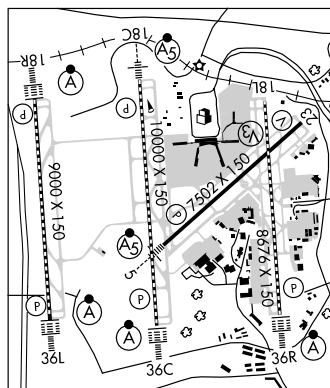
ILS/DME 109.5 I-APU Chan 32 Rwy 23. GS unusable blo 1100' MSL.

ILS 111.7 I-DQG Rwy 36C. Class IIID. LOC unusable throughout zone 5 due to structure at .56 NM.

ILS/DME 108.9 I-BQC Chan 26 Rwy 36R. Class IIIE.

ILS/DME 110.15 I-RGS Chan 38(Y) Rwy 18R. Class IIIB.

ILS/DME 110.15 I-XUU Chan 38(Y) Rwy 36L.



**WILGROVE AIR PARK** (8A6) 9 E UTC-5(-4DT) N35°12.83' W80°40.20'

**CHARLOTTE**

799 B **FUEL** 100LL NOTAM FILE RDU

**RWY 17-35:** H2835X40 (ASPH) S-10 LIRL (NSTD)

**RWY 17:** Thld dsplcd 100'. Trees.

**RWY 35:** Thld dsplcd 525'. Trees.

**AIRPORT REMARKS:** Attended 1300Z±—dusk. Arpt CLOSED to pure jet powered acft. Tall steel tower 2 miles from thld

Rwy 17 approximately 6000' right of centerline. 50 ft trees within 80 ft of centerline both sides of rwy.

Numerous obstructions within 60 ft from centerline 15 ft-40 ft in height. Deer invov arpt. Rwy 35 dsplcd thld

marked for day ops with three cones each side of rwy. Rwy 17-35 NSTD LIRL, no thld lgts. Rotating bcn ops

dusk-0600Z±. LIRL Rwy 17-35 opr dusk-0600Z±. ACTIVATE NSTD LIRL Rwy 17-35—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.725

## CHARLOTTE-MONROE EXECUTIVE (See MONROE)

**CHERRY POINT MCAS** (CUNNINGHAM FLD) (NKT)(KNKT) MC 2 NE UTC-5(-4DT)

**CHARLOTTE**

N34°54.19' W76°52.85'

**H-9C, L-35B**

**DIAP, AD**

29 B Class I, ARFF Index Ltd. NOTAM FILE RDU Not insp.

**RWY 14L-32R:** H8984X200 (ASPH) PCN 52 R/B/W/T HIRL

**RWY 05L-23R:** H8491X200 (ASPH) PCN 62 R/B/W/T HIRL

**RWY 05L:** Thld dsplcd 938'.

**RWY 23R:** MALSF. PAPI(P4L)—GA 3.0° TCH 54'.

**RWY 14R-32L:** H8399X200 (ASPH) PCN 52 R/B/W/T HIRL CL

**RWY 14R:** Thld dsplcd 846'.

**RWY 32L:** ALSF1. PAPI(P4L)—GA 3.0° TCH 76'.

**RWY 05R-23L:** H8188X200 (ASPH) PCN 55 R/B/W/T HIRL

### RUNWAY DECLARED DISTANCE INFORMATION

**RWY 05L:** TORA-8491 TODA-8491 ASDA-8491 LDA-7553

**RWY 14R:** TORA-8399 TODA-8399 ASDA-8399 LDA-7553

**RWY 23R:** TORA-7553 TODA-8491 ASDA-8491 LDA-7553

**RWY 32L:** TORA-8398 TODA-8399 ASDA-8399 LDA-7553

### ARRESTING GEAR/SYSTEM

**RWY 05R** HOOK E28(B) (1500')

**RWY 14L** ← HOOK E28(B) (1500')

HOOK E28(B) (1500') → **RWY 32L**

HOOK E28(B) (1500') **RWY 23R**

**MILITARY SERVICE:** LGT Portable lgt—mobile flood lgt. **A-GEAR** All E-28(B) in raised position except on ldg rwy. Rqr

15 minutes prior notice. **JASU** 2(GTC-85) 1(NCP-105). 2 working days prior notice rqr. **FUEL** J5. Hot pit refuel

avbl. **FLUID** SP PRESAIR HPOX LOX **TRAN ALERT** Limited tran maintenance avbl Mon-Fri 1200-2100Z±.

Transient acft with inert ordnance, hot pit refuel limited to F18 and USAF F15, F16 and A10 acft only. Hot pit

refuel with inert ordnance avbl Mon-Fri 1200-0300Z±, Sat-Sun 1700-0059Z±. No lavatory svc avbl.

**MILITARY REMARKS:** Opr 24 hrs. See FLIP AP/1 Supplementary Arpt Remarks. **RSTD** ATC terminology 'centermat' is

defined as the center of the afld where the four rwys intersect, rated for all acft wheel weights. PPR all tran acft

(min 24 hr in advance). Call Base OPS DSN 582-2233, C252-466-2233. Flight Planning/Base OPS opr 24 hr.

All rwy and twy, except Twy A, Twy C and Twy M will support all acft at all weight. Twy H limited to helicopters

only between fuel pit 5 and Twy J. Acft rstd from taxiing on Twy K between Rwy 23R and Test Cell. Towing ops

only. **CAUTION** Unlit twr at NKT 200006 549'. Extensive student jet training vertical and short take-off and landing

aircraft vicinity of arpt. Tran acft expect straight-in full stop ldg only during peak student training periods. Bird

hazard Oct-Apr. Drainage ditches parallel all rwy. Wildlife hazard on arpt, especially SS-SR. Obstruction

approximately 200' near NKT R-205/3. **TFC PAT** Ldg/taxi lgt rqr all ldg. Reduced rwy separation in effect for

USN/USMC acft. **CSTMS/AG/IMG** CSTMS, AG avbl with 24 hr prior notice. Reference Foreign Clearance Guide for

details. **MISC** 24 hr prior notice rqr of all distinguished visitor codes, etc Base OPS DSN 582-2233,

C252-466-2233. All acft with passenger/cargo/distinguished visitor ctc PTD 20 min prior to ldg.

**COMMUNICATIONS:** SFA ATIS 127.475 244.875

Ⓡ **APP/DEP CON** 119.35 377.175 (West) 124.1 268.7 (East abv 2600') 132.575 299.6 (East at/blo 2600') 119.75 360.775 (North)

**TOWER** 121.3 340.2 360.2 (Expect fld closure on National holiday weekends) **GND CON** 128.625 239.025

**CLNC DEL** 125.95 316.125 **PMSV METRO** 343.5 **BASE OPS** 126.2 305.7

**AIRSPACE:** CLASS D svc continuous, expect fld closure on National holiday weekends.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

(L) **TACAN** Chan 75 NKT (112.8) N34°54.13' W76°52.49' at fld. 28/9W.

TACAN azimuth unusable:

052°-060° byd 10 NM blo 3,000'

061°-089° byd 6 NM blo 5,000'

090°-109° byd 10 NM blo 3,000'

**ILS/DME** 108.9 I-NKT Chan 26 Rwy 23R. GS unusable byd 6° left of course.

**ASR/PAR**

**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.

**CHOCOWINITY** N35°30.58' W77°06.40' NOTAM FILE OCW.  
NDB (MHW) 388 RNW 044° 4.6 NM to Warren Fld.

CHARLOTTE  
L-35C

**CITY LAKE** N35°42.98' W79°51.92' NOTAM FILE HBI.  
NDB (MHW) 266 CQJ 209° 4 NM to Asheboro Rgnl.

CHARLOTTE  
L-25E, 36F

**CLINTON** N34°58.53' W78°21.78' NOTAM FILE CTZ.  
NDB (MHW) 412 CTZ at Clinton-Sampson Co.

CHARLOTTE  
L-35B, 36F

## CLINTON

**CLINTON-SAMPSON CO** (CTZ) 2 SW UTC-5(-4DT) N34°58.50' W78°21.94'

CHARLOTTE

148 B S4 FUEL 100LL, JET A1+ NOTAM FILE CTZ

H-9C, 12H, L-35B, 36F

RWY 06-24: H5000X75 (ASPH) S-26 MIRL 0.3% up NE

IAP

RWY 06: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 24: REIL. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1330Z±-dusk, Sun 1800Z±-dusk. For arpt attendant after hrs call 910-592-3295 or 910-590-9100. Rwy 06 has a 40' dropoff 325' from thld and 120' left and a 60'+ dropoff 20' from thld and 110' right of centerline. Rwy 24 has a 30' dropoff 350' from thld and 175' right of centerline. 50' trees 300' from CL penetrate transitional sfc NW side of rwy from Rwy 24 apch sfc to Rwy 06 thld. ACTIVATE REIL Rwy 06 and Rwy 24—CTAF, MIRL Rwy 06-24 dusk-dawn, PAPI Rwy 06 on 24 hrs. Rwy 24 PAPI OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 119.125 (910) 592-7488.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

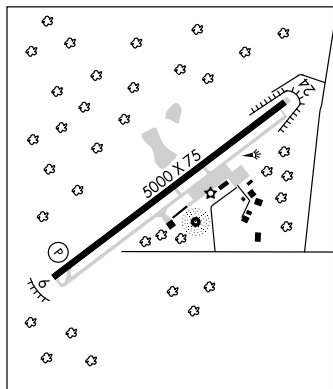
® FAYETTEVILLE APP/DEP CON 133.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 095° 25.1 NM to fld. 179/04W.

CLINTON NDB (MHW) 412 CTZ N34°58.53' W78°21.78' at fld. NOTAM FILE CTZ.

ILS 109.7 I-SGO Rwy 06. LOC only. Localizer unusable inside 1.2 NM from thld and byd 25° rgt of centerline.



**COASTAL CAROLINA RGNL** (See NEW BERN)

**COFIELD** N36°22.37' W76°52.29' NOTAM FILE RDU.  
(L) VORTAC 114.6 CVI Chan 93 262° 15.3 to Tri-County. 70/09W.  
RCO 122.1R 114.6T (RALEIGH RADIO)

CHARLOTTE  
H-9C, 12H, L-35C, 36H

**COLUMBUS CO MUNI** (See WHITEVILLE)

**CONCORD RGNL** (JQF) 7 W UTC-5(-4DT) N35°23.27' W80°42.55'  
705 B S4 FUEL 100LL, JET A, A1+ OX 3 ARFF Index—See Remarks  
NOTAM FILE JQF

CHARLOTTE  
H-9B, 12H, L-25D, 36E  
IAP, AD

RWY 02-20: H7400X100 (ASPH) D-72 HIRL 0.9% up N

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 60'. Trees.

RWY 20: MALSR. PAPI(P4L)—GA 3.0° TCH 44'. Thld dsplcd 650'. Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 02: TORA-7400 TODA-7400 ASDA-7400 LDA-7400

RWY 20: TORA-7400 TODA-7400 ASDA-7000 LDA-6350

**AIRPORT REMARKS:** Attended continuously. Class IV, ARFF Index A. Index C ARFF equipment avbl upon req. When twr clsd HIRL Rwy 02-20 and REIL Rwy 20 preset low ints. ACTIVATE MALSR Rwy 20—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 133.675 (704) 785-2145.

**COMMUNICATIONS:** CTAF 134.65 UNICOM 122.95

® CHARLOTTE APP/DEP CON 128.32 CLNC DEL 127.25

TOWER 134.65 (1200-0400Z±) GND CON 121.85 CLNC DEL 118.55

**AIRSPACE:** CLASS D svc 1200-0400Z± other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

CHARLOTTE (L) VOR/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 050° 16.8 NM to fld. 732/05W.  
HIWAS.

ILS/DME 111.95 I-JQF Chan 56(Y) Rwy 20. LOC unusable byd 30° right of centerline. Unmonitored.

**CUNNINGHAM FLD** (See CHERRY POINT MCAS)

**CURRITUCK CO RGNL** (ONX) 4 S UTC-5(-4DT) N36°24.00' W76°00.93'

18 B S2 FUEL 100LL, JET A1+ TPA-818(800) NOTAM FILE ONX

RWY 05-23: H5500X150 (ASPH-CONC) S-20, D-35 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 24'.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

**AIRPORT REMARKS:** Attended 1300-2200Z±, 1300-2000Z±. CLOSED on all state holidays. After hrs svc call 252-232-2116. Currituck County emergency number communication center 252-232-2216. Fuel avbl 24 hrs with credit card. Birds and deer on and invof arpt. Hang glider activity SR-SS. ACTIVATE MIRL Rwy 05-23 and PAPI Rwy 05 and Rwy 23 and REIL Rwy 05 and Rwy 23 after SS—CTAF. PAPI Rwy 05 and Rwy 23 opr continuously during daylight hrs.

**WEATHER DATA SOURCES:** AWOS-3 119.775 (252) 453-8939.

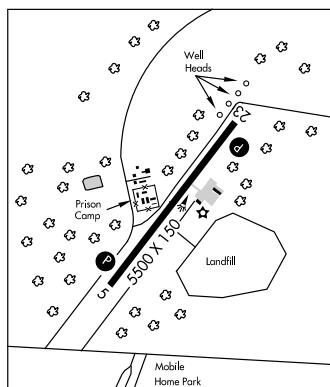
**COMMUNICATIONS:** CTAF 122.9

Ⓡ OCEANA APP/DEP CON 123.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ECG.

ELIZABETH CITY (L) VOR/DME 112.5 ECG Chan 72 N36°15.46'

W76°10.54' 049° 11.5 NM to fld. 10/07W. HIWAS.



**CURTIS L BROWN JR FIELD** (See ELIZABETHTOWN)

**DARE CO RGNL** (See MANTEO)

**DAVIDSON CO** (See LEXINGTON)

**DIXON** N34°34.11' W77°27.18' NOTAM FILE RDU.

NDB/DME (HHW) 198 DIW Chan 107 015° 8 NM to New River MCAS. DME portion unusable byd 40 NM blo 16,500'.

CHARLOTTE

H-9C, L-35B

**DONALD'S AIR PARK INC** (See PLYMOUTH)

**DOONE** N34°54.75' W78°56.38' NOTAM FILE FAY.

NDB (LOM) 367 GR 039° 5.6 NM to Fayetteville Rgnl/Grannis Fld.

CHARLOTTE

**DS BUTLER FARM AND AIRFIELD** (See OAKRIDGE)

**DUPLIN CO** (See KENANSVILLE)

**EAGLES NEST** (See POTTERS HILL)

## EDEN

**ROCKINGHAM CO HELIPORT** (8NØ) 0 N UTC-5(-4DT) N36°29.64' W79°44.39'

CINCINNATI

605 B NOTAM FILE RDU

HELIPAD H1: H60X60 (CONC)

HELIPAD H1: LDIN(NSTD)—Pole.

**HELIPORT REMARKS:** Unattended. Numerous +30' light poles in parking lot. +30' antenna on top of hospital (122' AGL) 300' NE of pad. Parking area NW of ldg pad; +4' perimeter fence within 13' of heliport-SW corner. 300' AGL cell twr 4500' NW of helipad. Helipad must be avbl for emergency ops. If aircraft unattended, use parking area NW of landing pad. For information call manager cell 336-573-3115/336-520-7886 minimum 24 hr in advance. NSTD ldg lgts and in ground concrete direction arrows on apch/dep path (east and northwest). Helipad H1 three perimeter lgts. 60' diameter concrete pad. Rotating bcn located on hospital roof 300' NE of ldg pad. Helipad H1 25' p-line 200' W of helipad. ACTIVATE NSTD perimeter and LDIN lgts H1-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

**EDENTON** N36°01.53' W76°33.99' NOTAM FILE EDE.

WASHINGTON

NDB (MHW) 265 EDE at Northeastern Rgnl. NDB unusable byd 15 NM.

L-35C

**EDENTON****NORTHEASTERN RGNL** (EDE) 3 SE UTC-5(-4DT) N36°01.66' W76°34.03'20 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE EDE**RWY 01-19:** H6000X100 (ASPH) S-60, D-80 MIRL**RWY 01:** REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.**RWY 19:** REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

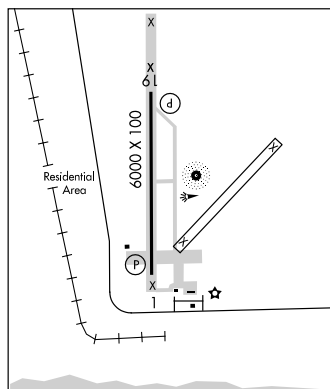
**AIRPORT REMARKS:** Attended 1300-2200Z†. For after hrs svc call 252-217-4975. After hr self svc fuel for 100LL and JET A1+ avbl with credit card. Seasonal problem with birds and deer on and invof arpt. Twys serving Rwy 01-19 have green centerline reflectors. PAPI Rwys 01 and 19 ops continuously. ACTIVATE MIRL Rwy 01-19 and REIL Rwy 01 and Rwy 19—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 121.125 (252) 482-0757.**COMMUNICATIONS:** CTAF/UNICOM 123.0**WASHINGTON CENTER APP/DEP CON** 123.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**COFIELD (L) VORTAC** 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 153° 25.4 NM to fld. 70/09W.

**EDENTON NDB (MHW)** 265 EDE N36°01.53' W76°33.99' at

fld. NOTAM FILE EDE. NDB unusable byd 15 NM.

**ILS/DME** 110.95 I-EDE Chan 46(Y) Rwy 19.**WASHINGTON****H-9C, 12H, L-35C**  
**IAP**



**ELIZABETH CITY CG AIR STATION/RGNL** (ECG) 3 SE UTC-5(-4DT)

WASHINGTON

N36°15.63' W76°10.47'

H-9C, 121, L-35D

12 B S4 FUEL 100LL, JET A1+ TPA—See Remarks NOTAM FILE ECG

IAP, AD

RWY 10-28: H7219X150 (CONC) S-100, D-200, 2S-175, 2D-400

HIRL CL

RWY 10: TDZL. REIL. PAPI(P2L)—GA 3.0° TCH 49'. Road. Rgt tfc.

RWY 28: REIL. PAPI(P2L)—GA 3.0° TCH 51'. Tree.

RWY 01-19: H4518X150 (ASPH-CONC) S-20 MIRL

RWY 01: VASI(V4L)—GA 2.75° TCH 31'. Thld dsplcd 299'.

Road. Rgt tfc.

RWY 19: VASI(V4L)—GA 2.75° TCH 28'. Rgt tfc.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-0200Z†, Sat-Sun

1300-2200Z†. Terminal CLOSED Christmas Day and New Years

Day. Twr attended 1300-0200Z†. Civ ramp attended Mon-Fri

1300-0200Z†, Sat-Sun 1300-2200Z†. For civ attendant after

hrs and holidays call 252-335-5634 during hrs attended. CG

ramp attended 24 hrs, ctc 252-335-6333. CG Aviation Logistic

Center ramp attended 1200-2000Z†. Twr and Civ ramp attended

1200-0300Z†. See FLIP AP/1 supplementary Arpt Info. Fuel 24 hr

self svc with credit card. Heavy bird activity invof arpt. Intermittent

tethered balloon ops 3 NM SE dalgst hrs at 3000 ft. Rwy 01-19

and Twy G west of the civil ramp CLOSED to all ops over 12,500

lbs. Vertical tkf and landing only for copters over 12,500 lbs. Rwy 01-19 loose gravel, pavement cracks,

vegetation. Acft with tail heights to 50' parked on apron first 2000' from Rwy 28 right side 250' from rwy

centerline. TPA-Fixed Wing 1512(1500), Rotary Wing 1012(1000). All DOD turbojet acft must obtain prior

permission from air station ops prior to requesting arpt familiarization apchs. SP LHOX OIL: 0-133-156 Tran

Alert-No tran maintenance, ltd svc, expect up to 4 hr delay for fuel. Tran air carrier must remain with acft to

provide directions/assistance in servicing. All DOD turbojet acft full stop lds only, practice apchs and touch and

go lds prohibited. PPR for parking and svcs on Coast Guard Ramp and Aviation Logistic Center (ALC) ramp.

Coast Guard complex has numerous buildings within the building restriction lines. Compass rose for Coast

Guard use only. Noise Abatement in effect: call afld management for details at 252-335-6333. Blimp opr and

training site 3 NM southeast of fld—flight opr conducted in surrounding area. Seasonal low-flying agricultural acft

based in the local area. No line-of-sight between rwy ends. Search and Rescue may rqr 24 hr twr staff

0200-1300Z†, trans intentions in the blind on 120.5. Facilities and connector twys north of Rwy 10-28

restricted to official CG business, PPR for entry. Twy pavement rough. All acft destined for CG Air Station ctc

Elizabeth City air on 345.0, 10 min prior to ldg. All acft destined for CG ALC ctc Flt Ops 123.1. When twr is clsd

centerline lgts and VASI Rwy 10 and Rwy 28 opr continuously. ACTIVATE HIRL Rwy 10-28 and MIRL Rwy 01-19

—CTAF.

**WEATHER DATA SOURCES:** ASOS 124.375 (252) 338-4750. HIWAS 112.5 ECG.**COMMUNICATIONS:** CTAF 120.5 UNICOM 122.95

RCO 122.2 122.05R 112.5T (RALEIGH RADIO)

® NORFOLK APP/DEP CON 119.55

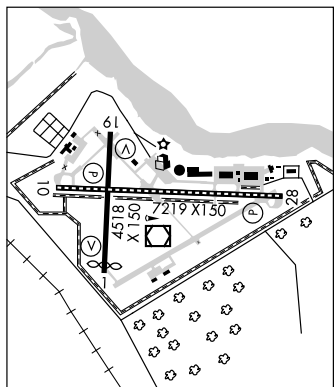
TOWER 120.5 (1300-0200Z†) GND CON 121.9

**AIRSPACE:** CLASS D svc 1300-0200Z† other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ECG.

(L) VOR/DME 112.5 ECG Chan 72 N36°15.46' W76°10.54' at fld. 10/07W. HIWAS.

WOODVILLE NDB (MHW) 254 LLW N36°15.78' W76°17.88' 101° 6 NM to fld.

ILS/DME 111.35 I-EPR Chan 50(Y) Rwy 10. Class IE.

**COMM/NAV/WEATHER REMARKS:** 24 hr search and rescue acft ops may rqr twr to be staffed 0300-1200Z†, transmit intentions in the blind on 120.5.

**ELIZABETHTOWN****CURTIS L BROWN JR FIELD** (EYF) 2 SE UTC-5(-4DT) N34°36.11' W78°34.76'

CHARLOTTE

132 B S2 FUEL 100LL, JET A1+ NOTAM FILE RDU

L-35A, 36F

RWY 15-33: H4998X75 (ASPH) S-30, D-45 MIRL

IAP

RWY 15: PAPI(P2L)—GA 4.2° TCH 45'.

RWY 33: REIL. PAPI(P2L)—GA 3.0° TCH 33'.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2330Z†, Sun 1330-2330Z†. For svc after hrs and emergencies call 910-862-8928. Fuel avbl 24 hrs with credit card. Deer on and invof arpt. Birds on and invof arpt spring and fall. Low level military activity invof arpt. Arpt bcn is obscured by trees to the east. ACTIVATE MIRL Rwy 15-33; PAPI Rwy 15 and Rwy 33 and REIL Rwy 33—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.475 (910) 862-9982.**COMMUNICATIONS:** CTAF/UNICOM 122.8

FAYETTEVILLE APP/DEP CON 133.0

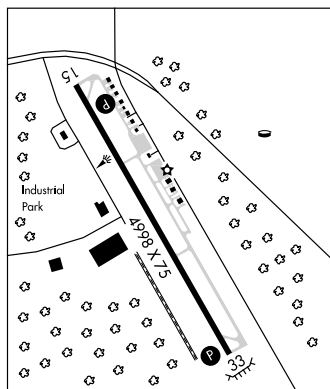
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13'

W78°52.50' 151° 27.2 to fld. 179/04W.

ELIZABETHTOWN NDB (MHW) 398 TGQ N34°31.73'

W78°30.96' 332° 5.4 NM to fld. NOTAM FILE RDU.

**ELIZABETHTOWN** N34°31.73' W78°30.96' NOTAM FILE RDU.

CHARLOTTE

NDB (MHW) 398 TGQ 332° 5.4 NM to Curtis L Brown Jr Fld.

L-35A

**ELKIN MUNI** (ZEF) 3 NE UTC-5(-4DT) N36°16.80' W80°47.16'

CINCINNATI

1068 B S2 FUEL 100LL, JET A1+ TPA-2068(1000) NOTAM FILE RDU

L-26D

RWY 07-25: H4003X75 (ASPH) S-25 MIRL 0.7% up W

IAP

RWY 07: VASI(V2L)—GA 3.5° TCH 19'. Tree.

RWY 25: REIL. VASI(V2L)—GA 4.5° TCH 66'. Tree.

**AIRPORT REMARKS:** Attended 1400-2200Z†. For svc after hrs call 336-874-7171, 336-874-2931, 336-366-7994 or 336-926-6243. Fuel 24 hr self svc with credit card. Trees and steep terrain within 75' of rwy. Deer on and invof arpt. Rwy 25 has an uphill grade. Rwy 07 and Rwy 25 VASI opr continuously. Rwy 25 VASI unusable byd 5° left and right of centerline due to trees. ACTIVATE MIRL Rwy 07-25 and REIL Rwy 25—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

Ⓡ ATLANTA CENTER APP/DEP CON 125.15

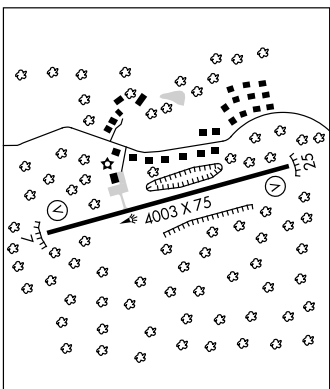
**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

BARRETS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45

N35°52.13' W81°14.43' 048° 33.1 NM to fld. 1880/06W.

ZEPHYR NDB (MHW) 326 ZEF N36°18.79' W80°43.40' 242°

3.6 NM to fld.

**ELLIS** N34°45.03' W77°42.27' NOTAM FILE OAJ.

CHARLOTTE

NDB (LOM) 261 OA 052° 6.6 NM to Albert J. Ellis. Unmonitored.

**ENGELHARD****HYDE CO** (7W6) 6 N UTC-5(-4DT) N35°33.74' W75°57.31'

CHARLOTTE

8 B NOTAM FILE RDU

L-35C

RWY 11-29: H4700X100 (ASPH-GRVD) S-30, D-43 MIRL

RWY 11: PAPI(P2L)—GA 3.0° TCH 34'. Rgt tfc.

RWY 29: PAPI(P2L)—GA 3.0° TCH 34'. Trees.

**AIRPORT REMARKS:** Unattended. R5313 5 miles E of arpt and R5314 5 miles N of arpt have heavy concentrations of military acft within 1000' AGL and in excess of 500 knots, acft maneuvering for ldg and after tkf should remain over land E of airport. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 11-29—CTAF. PAPI Rwy 11 and Rwy 29 on continuously.

**COMMUNICATIONS:** CTAF/UNICOM 122.7**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 086° 79.0 NM to fld. 106/05W.

## ERWIN

**HARNETT RGNL JETPORT** (HRJ) 4 NW UTC-5(-4DT) N35°22.81' W78°43.93'

CHARLOTTE

202 B S4 FUEL 100LL, JET A1+ NOTAM FILE HRJ  
RWY 05-23: H5000X75 (ASPH) S-13 MRL 0.3% up NE

H-9C, 12H, L-35B, 36F  
IAP

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 35'.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 35'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z†, Sat-Sun 1400-2200Z†. For svc after hrs see telephone number posted on FBO door. Fuel self svc with credit card. Birds on and in/ovf arpt. Glider activity dalgt hrs; gliders only may use rgt tfc. Gliders use grass area adjacent Rwy 05-23 for ldg. Ultralight airport 2 NM S.E. Heavy amounts ultralight to 1000' MSL mainly weekends extending into Harnett Rgnl Jetport tfc pattern. Rwy 05, 60' drop off 350' from thld and Rwy 23, 15' drop off 70' left of centerline. Arpt located 18 NM NE of Pope AFB; Heavy amounts of military tfc as low as 500' AGL overhead Harnett Rgnl Jetport. Rotating bcn obscured by trees N and W of arpt. ACTIVATE MRL Rwy 05-23 and REIL Rwy 05 and Rwy 23—CTAF. PAPI Rwy 05 and Rwy 23 opr continuously. REIL Rwy 05 OTS indef. REIL Rwy 23 OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 119.025 (910) 814-3946.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ **FAYETTEVILLE APP/DEP CON** 125.175

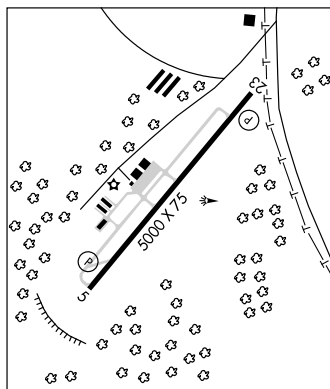
GCO 135.075 (FAYETTEVILLE CLNC and FLIGHT SERVICES)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 021° 24.7 NM to fld. 179/04W.

NDB(MHW) 417 HQT N35°25.99' W78°40.50' 230° 4.2 NM to fld. NOTAM FILE HRJ.

LOC/DME 108.35 I-HRJ Chan 20(Y) Rwy 05.



## FARMVILLE

**FLANAGAN FLD** (NØ8) 3 SE UTC-5(-4DT) N35°33.40' W77°33.63'

CHARLOTTE

75 NOTAM FILE RDU

RWY 03-21: 2500X100 (TURF)

RWY 03: Trees. RWY 21: Thld dsplcd 300'. Trees.

**AIRPORT REMARKS:** Unattended. Glider ops in/ovf arpt. Aerial crop spraying in/ovf of arpt. Livestock and wildlife in/ovf arpt. +4' fence/brush along hwy northeast end Rwy 21. Rwy 21 no dsplcd thld markings. Rwy 03-21 marked with yellow cones.

**COMMUNICATIONS:** CTAF 122.9

**FAYETTEVILLE****FAYETTEVILLE RGNL/GRANNIS FLD** (FAY) 3 S UTC-5(-4DT)

N34°59.47' W78°52.82'

189 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE FAY

RWY 04-22: H7709X150 (ASPH-GRVD) S-100, D-200, 2S-175, 2D-350, 2D/2D2-750 HIRL 0.3% up SW

RWY 04: MALSR. PAPI (P4R)—GA 3.0° TCH 60'. Thld dspcd 499'.

RWY 22: REIL. VASI(V4L)—GA 3.0° TCH 60'. Thld dspcd 302'.

RWY 10-28: H4801X150 (ASPH) S-30, D-55 MIRL

RWY 10: REIL. Trees.

RWY 28: REIL. PAPI(P4L)—GA 3.0° TCH 35'. Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04: TORA-7712 TODA-7712 ASDA-7006 LDA-6507

RWY 22: TORA-7712 TODA-7712 ASDA-7213 LDA-6507

**AIRPORT REMARKS:** Attended 1100-0500Z. CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR. Call arpt manager 910-433-1160 Mon-Fri. Major power plant repairs avbl for piston engines only.

**WEATHER DATA SOURCES:** ASOS (910) 484-1546. LAWRS.**COMMUNICATIONS:** ATIS 121.25 UNICOM 122.95

RCO 122.1R 108.8T (RALEIGH RADIO)

Ⓡ APP/DEP CON 133.0 (061°-230°) 127.8 (231°-320°) 125.175 (321°-060°)

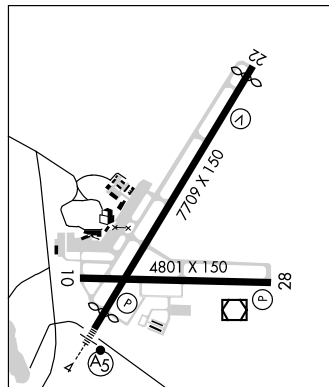
TOWER 118.3 GND CON 121.7

**AIRSPACE:** CLASS C svc continuously ctc APP CON**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

(L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' at fld. 179/04W.

DOONE NDB (LOM) 367 GR N34°54.75' W78°56.38' 039° 5.6 NM to fld.

ILS 110.5 I-GRA RWY 04. Class IB. LOM DOONE NDB. ILS unmonitored when twr clsd. Glideslope unusable byd 3° rgt of course.

**GRAYS CREEK** (2GC) 9S UTC-5(-4DT) N34°53.62' W78°50.61'

160 S4 FUEL 100LL NOTAM FILE RDU

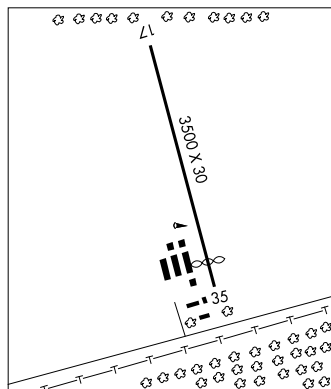
RWY 17-35: H3500X30 (ASPH) S-8 LIRL(NSTD)

RWY 17: Crops. RWY 35: Thld dspcd 350'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z. Weekends by appointment only call 910-286-3435. 40' unmarked p-line 800' from dspcd thld Rwy 35. Rwy 17-35 NSTD LIRL first 350' Rwy 35 not lgtd. For LIRL Rwy 17-35 call 910-483-4114. Rwy 17-35 lgtd thld relocated 350'; 3150' of Rwy 17-35 usable at ngt. Taxi on the grass apron at a slow speed due to uneven sod surface.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 168° 5.7 NM to fld. 179/04W.

**FIDDLERS** N35°42.61' W81°40.28' NOTAM FILE RDU.

NDB (MHW) 391 FIQ 031° 7.2 NM to Foothills Rgnl. NDB unusable byd 20 NM. NDB located 41,900' from threshold Rwy 03 and 400' SE of extended centerline.

ATLANTA

L-25C

**FIRST FLIGHT** (See KILL DEVIL HILLS)**FIRST RIVER** N35°15.16' W81°35.93' NOTAM FILE RDU.

NDB (MHW) 417 SLP at Shelby-Cleveland Co Rgnl

CHARLOTTE

L-25D

**FLANAGAN FLD** (See FARMVILLE)**FOOTHILLS RGNL** (See MORGANTON)

**FORT BRAGG** (See SIMMONS AAF)**FRANKLIN****MACON CO** (1A5) 3 NW UTC-5(-4DT) N35°13.36' W83°25.14'

2020 B S4 FUEL 100LL, JET A1+ TPA-2800(780) NOTAM FILE RDU

RWY 07-25: H4400X75 (ASPH) S-30 MIRL

RWY 07: Trees.

RWY 25: Brush. Rgt tfc.

**AIRPORT REMARKS:** Attended 1300Z±-dusk. Rapidly rising terrain all quadrants. Rwy 07-25 has severe cracks and vegetation through cracks and joints. Rwy 25 has a 15 ft drop off 350 ft from thld left and right. MIRL Rwy 07-25 on dusk-dawn to incr ints-CTAF. Arpt bcn located 3/4 mile SE of arpt.

**WEATHER DATA SOURCES:** AWOS-3 118.225 (828) 349-3156.**COMMUNICATIONS:** CTAF/UNICOM 123.05

ATLANTA CENTER APP/DEP CON 134.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MCN.

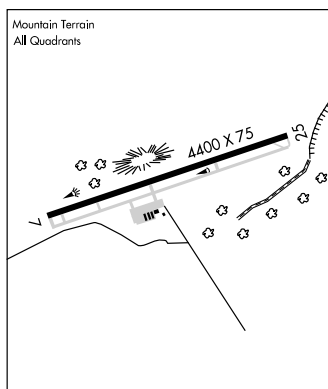
HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58'

W83°54.94' 055° 29.6 NM to fld. 3660/00E. HIWAS.

ATLANTA

L-25B

IAP

**GASTONIA MUNI** (AKH) 4 S UTC-5(-4DT) N35°12.16' W81°08.99'

798 B S4 FUEL 100LL, JET A1 NOTAM FILE AKH

RWY 03-21: H3770X100 (ASPH) S-24 MIRL 0.4% up SW

RWY 03: ODALS. PAPI(P2R)-GA 3.0°TCH 26'. Road.

RWY 21: PAPI(P2L)-GA 3.0°TCH 31'. Thld dspcd 90'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z±, Sun 1600-2200Z±. CLOSED Christmas Day. For svc after hrs call 704-460-5619. Deer on and invof arpt. Parallel twy unlgtd. Noise abatement: from 0300-1100Z± pilots are requested to use Rwy 21 as calm wind dep rwy and do runups on ramp; not rwy end. To avoid low altitude turns to the W req clnc thru CLASS B airspace from Charlotte apch. Rwy 03 has 25' p-line 400' from thld left and right of centerline. 15' road 292' from thld left and right of centerline. 50' drop-off 124' from dspcd thld left and right of centerline. ACTIVATE MIRL Rwy 03-21, ODALS Rwy 03 and PAPI Rwy 03 and PAPI Rwy 21-CTAF.

**WEATHER DATA SOURCES:** ASOS 135.725 (704) 868-9034.**COMMUNICATIONS:** CTAF/UNICOM 123.0

® CHARLOTTE APP/DEP CON 134.75 CLNC DEL 127.2

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'

W80°57.11' 279° 9.8 NM to fld. 732/05W. HIWAS.

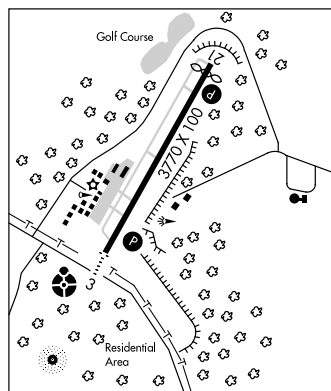
STONIA NDB (MHW) 260 GHJ N35°11.48' W81°09.43' at fld. NOTAM FILE RDU.

**COMM/NAV/WEATHER REMARKS:** NDB unmonitored 2330-1130Z during standard time, 2330-1030Z during daylight savings time. Clnc Del freq 127.2 OTS indef.

CHARLOTTE

L-25D, 36E

IAP



**GOLDSBORO-WAYNE MUNI** (GWW) 3 N UTC-5(-4DT) N35°27.63' W77°57.90'

133 B S4 FUEL 100LL, JET A1+ OX 1, 4 NOTAM FILE GWW

RWY 05-23: H5499X99 (ASPH) S-30, D-42 PCN 49 F/C/Y/T MIRL

RWY 05: PAPI(P4L)—GA 3.0° TCH 40'.

RWY 23: ODALS. REIL. PAPI(P4L)—GA 3.0° TCH 43'.

**AIRPORT REMARKS:** Attended 1300-0100Z†. Unattended Christmas and Thanksgiving. Bird activity invof arpt. Helicopter ops on twy leading to T hangers. Helipad on twy with traffic cones and flags. Surface variations in rwy safety area. Ultraigt aircraft PPR call 919-734-7630. ACTIVATE MIRL Rwy 05-23, REIL Rwy 23, and ODALS Rwy 23—CTAF; PAPI Rwy 05 and Rwy 23 opr continuously.

**WEATHER DATA SOURCES:** AWOS-3 118.975 (919) 731-4473.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ SEYMOUR JOHNSON APP/DEP CON 123.7 (1200-0430Z†)

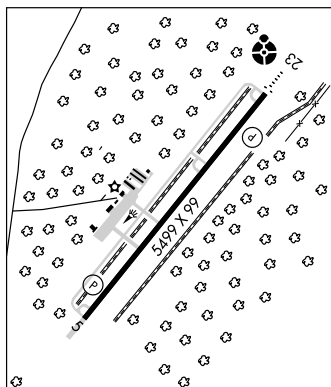
WASHINGTON CENTER APP/DEP 135.5 (0430-1200Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 290° 20.7 NM to fld. 106/05W.

ILS 111.9 I-UGZ Rwy 23. Class IB.



CHARLOTTE

H-9C, 12H, L-35B, 36F

IAP

**GOOSE CREEK** (See INDIAN TRAIL)**GRAYS CREEK** (See FAYETTEVILLE)**GREENSBORO** N36°02.74' W79°58.58' NOTAM FILE GSO.

(H) VORTAC 116.2 GSO Chan 109 034° 3.7 NM to Piedmont Triad Intl.

879/03W. HIWAS.

RCO 123.65 122.2 122.1R 116.2T (RALEIGH RADIO)

CINCINNATI

H-9B, 12H, L-25E, 36F

**GREENSBORO****AIR HARBOR** (W88) 6 N UTC-5(-4DT) N36°10.42' W79°48.18'

CINCINNATI

822 S4 FUEL 100LL NOTAM FILE RDU

RWY 09-27: H2460X65 (ASPH-TURF) MIRL(NSTD)

RWY 09: Trees. RWY 27: Trees.

**AIRPORT REMARKS:** Attended 1700Z†-dusk. Fuel avbl 24hr credit card svc. Deer on and invof arpt. After hrs emerg call 336-288-8047. Rwy 09-27 north 25' width is asph. South 40' width is turf. Rwy 09-27 NSTD MIRL; edge lgts vary from 40'-70' from pavement south end, 8' from pavement north end. Rwy 09 has +60' dropoff 220' from thld. Rwy 27 has 8' dropoff 10' from thld, left and right. Rwy-09 ldg uphill. Grvl access road 60' from Rwy 27 end.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**PIEDMONT TRIAD INTL** (GSO) 7 W UTC-5(-4DT) N36°06.08' W79°56.47'

926 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index C

CINCINNATI

H-9B, 12H, L-25E, 36F

IAP, AD

NOTAM FILE GSO

**RWY 05R-23L:** H10001X150 (ASPH-GRVD) S-124, D-170,

2S-175, 2D-240 HIRL CL

**RWY 05R:** MALSR. PAPI(P4R)—GA 3.0° TCH 68'. 0.3% down.

**RWY 23L:** ALSF2. TDZL. PAPI(P4L).

**RWY 05L-23R:** H9000X150 (ASPH) S-124, D-170, 2D-240

HIRL CL

**RWY 05L:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 78'.

**RWY 23R:** MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 69'.

**RWY 14-32:** H6380X150 (ASPH-PFC) S-123, D-170, 2S-175,

2D-244 HIRL 0.4% up NW

**RWY 32:** REIL. VASI(V4L)—GA 3.0° TCH 53'.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
<b>RWY 14</b>	05R-23L	3450
<b>RWY 23L</b>	14-32	9200

**RUNWAY DECLARED DISTANCE INFORMATION**

<b>RWY 05L:</b> TORA-9000	TODA-9000	ASDA-9000	LDA-9000
<b>RWY 05R:</b> TORA-10001	TODA-10001	ASDA-10001	LDA-10001
<b>RWY 14:</b> TORA-6380	TODA-6380	ASDA-6380	LDA-6380
<b>RWY 23L:</b> TORA-10001	TODA-10001	ASDA-9601	LDA-9601
<b>RWY 23R:</b> TORA-9000	TODA-9000	ASDA-9000	LDA-9000
<b>RWY 32:</b> TORA-6380	TODA-6380	ASDA-6380	LDA-6380

**AIRPORT REMARKS:** Attended continuously. Acft with wingspan greater than 171' are restricted from using Twy E. Flight Notification Service (ADCUS) avbl. Rwy 05L and Rwy 23R RVR avbl touchdown, midfield and rollout.

**WEATHER DATA SOURCES:** ASOS (336) 393-0168. **HIWAS** 116.2 GSO. WSP.

**COMMUNICATIONS:** D-ATIS 128.55 UNICOM 122.95

Ⓡ **GREENSBORO APP/DEP CON** 124.35 (250°-049°) 118.5 (050°-249°)

**TOWER** 119.1 **GND CON** 121.9 **CLNC DEL** 121.75

**AIRSPACE:** CLASS C svc continuous etc **APP CON**

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.

**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74' W79°58.58' 030° 3.7 NM to fld. 879/03W. **HIWAS.**

**MARKY NDB (LOM)** 254 GS N36°10.02' W80°02.14' 139° 6.0 NM to fld. Unmonitored.

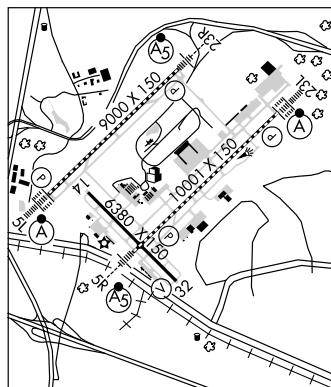
**ILS 109.9** I-GSO Rwy 14. LOM **MARKY NDB.** LOM unmonitored. MM OTS indef.

**ILS 109.3** I-HIH Rwy 23L. Class IIE.

**ILS/DME 111.9** I-LZY Chan 56 Rwy 05R. Class IA. LOC unusable byd 30° left and right of course.

**ILS/DME 109.55** I-LLG Chan 32(Y) Rwy 05L.

**ILS/DME 109.55** I-IDB Chan 32(Y) Rwy 23R.



**SOUTHEAST GREENSBORO** (3A4) 8 SE UTC-5(-4DT) N35°56.52' W79°41.13'

737 S4 NOTAM FILE RDU

**RWY 17-35:** H3063X30 (ASPH) S-8 MIRL

**RWY 17:** Trees. **RWY 35:** Trees.

**AIRPORT REMARKS:** Attended 1200-2200Z±. Parachute Jumping.

Practice Idg on Rwy 35 not permitted. Rwy 17 uphill Idg preferred.

Emergency ctc number 336-420-3776 and 336-420-3775. Rwy

17-35 MIRL OTS, only two end lgts functioning each side.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

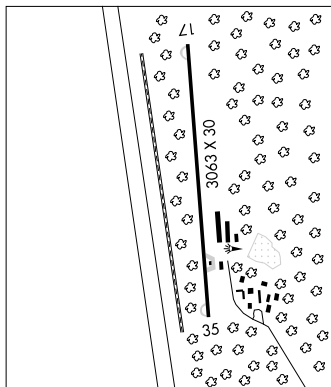
**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**LIBERTY (L) VORTAC** 113.0 LIB Chan 77 N35°48.70'

W79°36.76' 339° 8.6 NM to fld. 830/03W.

CHARLOTTE

L-25E, 36F



**GREENVILLE****PITT-GREENVILLE** (PGV) 2 N UTC-5(-4DT) N35°38.12' W77°23.12'**CHARLOTTE**

26 B S4 FUEL 100LL, JET A ARFF Index—See Remarks NOTAM FILE PGV

H-9C, 12H, L-35C

RWY 02-20: H6505X150 (ASPH-GRVD) S-40, D-65 HIRL

IAP, AD

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 42'. Trees.

RWY 20: MALSR. PAPI(P4L)—GA 3.0° TCH 25'. Thld dsplcd 350'.  
Trees.

RWY 08-26: H4997X150 (ASPH) S-40, D-65 MIRL

RWY 08: REIL. PAPI(P4L)—GA 4.0° TCH 42'. Trees.

RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 31'. Pole.

RWY 15-33: H2687X150 (ASPH) S-40, D-65

RWY 15: Trees. RWY 33: Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 02: TORA-6505 TODA-6505 ASDA-6505 LDA-6505

RWY 08: TORA-4997 TODA-4997 ASDA-4997 LDA-4997

RWY 15: TORA-2687 TODA-2687 ASDA-2687 LDA-2687

RWY 20: TORA-6505 TODA-6505 ASDA-6505 LDA-6157

RWY 26: TORA-4997 TODA-4997 ASDA-4997 LDA-4997

RWY 33: TORA-2687 TODA-2687 ASDA-2687 LDA-2687

**AIRPORT REMARKS:** Attended Mon-Fri 1030-0430Z†, Sat

1030-0300Z†, Sun 1030-0430Z†. Rwy 15-33 multiple large

cracks in pavement. Grass growing out of cracks. Class I, ARFF

Index B. CLOSED to unscheduled air carrier opr with more than 30

passenger seats except 24 hr PPR call arpt manager 252-758-4707. Index C ARFF equip avbl upon req. 24 hr

helicopter ops at hospital 1.5 NM SSW of arpt; monitoring CTAF. Lgt'd windsock OTS indef. Rwy 15-33 non-acr

acft only. ACTIVATE MIRL Rwy 08-26, HIRL Rwy 02-20 and MALSR Rwy 20—CTAF. PAPI Rwy 02, Rwy 20, Rwy 08

and Rwy 26 opr continuous.

**WEATHER DATA SOURCES:** AWOS-3 128.425 (252) 758-6485.**COMMUNICATIONS:** CTAF/UNICOM 122.8

RCD 122.35 (RALEIGH RADIO)

® WASHINGTON CENTER APP/DEP CON 135.5

CLNC DEL 122.35 (RALEIGH RADIO)

**AIRSPACE:** CLASS E svc 1100-0500Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 148° 25.7 NM to fld. 70/05W.

ALWOOD NDB (MHW) 230 AQE N35°42.41' W77°22.31' 198° 4.3 NM to fld. NOTAM FILE PGV.

ILS/DME 110.7 I-PGV Chan 44. Rwy 20. Class IB. LOC unmonitored 0430-1100Z†. DME unmonitored. GS  
unmonitored.**GREON** N35°47.82' W78°52.98' NOTAM FILE RDU.**CHARLOTTE**

NDB (LOM) 382 RD 051° 6.7 NM to Raleigh-Durham Intl. (Unmonitored)

**HALIFAX-NORTHAMPTON RGNL** (See ROANOKE RAPIDS)**HARNETT RGNL JETPORT** (See ERWIN)



**HATTERAS****BILLY MITCHELL** (HSE) 4 E UTC-5(-4DT) N35°13.97' W75°37.07'**CHARLOTTE**

17 NOTAM FILE HSE

**L-35C****RWY 07-25:** H3000X75 (ASPH) S-30**IAP****RWY 07:** Brush. **RWY 25:** Tree.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. All ngt time ops prohibited. Flocks of seagulls on and invof arpt. High speed-low level military ops invof arpt. Arpt is within Cape Hatteras National Seashore. Maintain 2000 ft vertical and horizontal distance from seashore beaches. Additional acft parking avbl on N apron.

**WEATHER DATA SOURCES:** ASOS 118.375 (252) 995-3646.**COMMUNICATIONS:** CTAF 122.9**HATTERAS RCO** 122.3 (RALEIGH RADIO)**CHERRY POINT APP/DEP CON** 119.75 (North)**RADIO AIDS TO NAVIGATION:** NOTAM FILE ECG.**ELIZABETH CITY (L) VOR/DME** 112.5 ECG Chan 72 N36°15.46'

W76°10.54' 163° 67.2 NM to fld. 10/07W.

**HIWAS.****HATTERAS** N35°14.01' W75°37.06'**CHARLOTTE****RCO** 122.3 (RALEIGH RADIO) at Billy Mitchell.**L-35C****HENDERSON FLD** (See WALLACE)**HENDERSON-OXFORD** (See OXFORD)**HENDERSONVILLE** (ØA7) 2 E UTC-5(-4DT) N35°18.46' W82°25.99'**ATLANTA**2084 S4 **FUEL** 100LL NOTAM FILE RDU**L-25C****RWY 15-33:** H3075X40 (ASPH) S-10 LIRL**RWY 15:** Thld dsplcd 270'. Trees.**RWY 33:** Thld dsplcd 325'. Road.

**AIRPORT REMARKS:** Attended continuously. For svc after hrs call 828-693-1897. Acft parked 40' from edge of Rwy 15-33 S end. ACTIVATE LIRL Rwy 15-33-CTAF. Ldg fee. \$10.00 fee for acft over 6000 lbs or turbine.

**COMMUNICATIONS:** CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**SUGARLOAF MOUNTAIN (L) VORTAC** 112.2 SUG Chan 59 N35°24.39' W82°16.12' 236° 10 NM to fld. 3970/02W.

**HIATT** (See THOMASVILLE)

**HICKORY****HICKORY RGNL** (HKY) 3 W UTC-5(-4DT) N35°44.47' W81°23.37'

CHARLOTTE

1190 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE HKY

H-9B, 12H, L-25D

RWY 06-24: H6400X150 (ASPH-GRVD) S-32, D-55 HIRL 0.8% up NE

IAP, AD

RWY 06: REIL. VASI(V4L)—GA 3.0° TCH 49'. Trees.

RWY 24: MALSR. PAPI(P4L)—GA 3.0° TCH 54'.

RWY 01-19: H4400X150 (ASPH) S-30, D-40 MIRL 0.6% up N

RWY 01: REIL. PAPI(P4L). Tree.

RWY 19: REIL. VASI(V4R)—GA 3.0° TCH 32'.

**AIRPORT REMARKS:** Attended continuously. Limited svcs avbl 0400-1100Z†. Tkf Rwy 19 prohibited when twr closed. No practice IFR apchs between 2100-0000Z†. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 828-323-7408. No line of sight between Rwy 19 and Rwy 24. ACTIVATE HIRL Rwy 06-24, MIRL Rwy 01-19, PAPI Rwy 24, REIL Rwy 01 and MALSR Rwy 24—CTAF (0400-1200Z†).

**WEATHER DATA SOURCES:** ASOS 118.325 (828) 322-2996.**COMMUNICATIONS:** CTAF 128.15

RCO 122.6 122.2 (RALEIGH RADIO)

Ⓡ ATLANTA CENTER APP/DEP CON 125.15 CLNC DEL 124.25 (When twr clsd)

TOWER 128.15 (1200-0400Z†) GND CON 121.7

CLNC DEL 121.7

**AIRSPACE:** CLASS D svc 1200-0400Z† other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45 N35°52.13' W81°14.43' 230°10.6 NM to fld. 1880/06W.

TAWBA NDB (MHW/LOM) 332 HK N35°47.19' W81°18.32' 243° 4.9 NM to fld. NOTAM FILE HKY.

ILS 108.7 I-HKY Rwy 24. LOM TAWBA NDB.

**WILSON'S** (E4Ø) 4 S UTC-5(-4DT) N35°39.12' W81°21.47'

CHARLOTTE

985 NOTAM FILE RDU

RWY 17-35: 2175X70 (TURF)

RWY 17: Trees. RWY 35: Trees.

**AIRPORT REMARKS:** Unattended. Arpt open dalgt hrs only. 130' AGL unmarked p-lines 1000' N and E of rwy. Rwy 35 slopes uphill. Last half of Rwy 17 slopes downhill—dep end of Rwy 35 is 6' lower than opposite end.

**COMMUNICATIONS:** CTAF 122.9**HIMUN** N35°58.69' W79°35.08' NOTAM FILE BUY.

CINCINNATI

NDB (MHW/LOM) 361 HB 044° 6.8 NM to Burlington-Alamance Rgnl.

L-25E, 36F

**HINSHAW (GREENACRES)** (See LIBERTY)**HOLLY RIDGE/TOPSAIL ISLAND** (N21) 1 SE UTC-5(-4DT) N34°29.46' W77°31.86'

CHARLOTTE

40 NOTAM FILE RDU

RWY 14-32: 3600X88 (TURF) RWY LGTS (NSTD)

RWY 14: Thld dsplcd 925'. P-line. RWY 32: Thld dsplcd 600'. P-line.

**AIRPORT REMARKS:** Attended irregularly. Deer on and invof arpt. Rwy 14-32 lgtd thld Rwy 14 relocated 925'; Rwy 32 lgtd thld relocated 600'; 2000' of Rwy 14-32 usable for ngt ops. (A5I) Dsplcd thlds indicated by end of rwy lgts and yellow cones.

**COMMUNICATIONS:** CTAF 122.9**HORACE WILLIAMS** (See CHAPEL HILL)**HUNTSBORO** N36°18.03' W78°37.12' NOTAM FILE RDU.

WASHINGTON

NDB (MHW) 271 HXO 057° 5.7 NM to Henderson-Oxford.

L-36G

**HURDLE FLD** (See MEBANE)

**HURDLE MILLS****WHITFIELD FARMS** (4W4) 2 W UTC-5(-4DT) N36°17.01' W79°04.73'

CINCINNATI

653 NOTAM FILE RDU

**RWY 03-21:** 1950X70 (TURF)**RWY 03:** Trees. **RWY 21:** Thld dsplcd 400'. Trees.**AIRPORT REMARKS:** Unattended. Be alert farm equipment/cattle may be on strip; salvage acft left side of Rwy 03.

Small radio control model airplanes operate on airport. Owner prefers lds to the S and tkfs to the N. Rwy 03-21, marked by yellow cones.

**COMMUNICATIONS:** CTAF 122.9**HYDE CO** (See ENGELHARD)**INDIAN TRAIL****GOOSE CREEK** (28A) 6 NE UTC-5(-4DT) N35°07.26' W80°35.24'

CHARLOTTE

565 B **FUEL** 100LL TPA—See Remarks NOTAM FILE RDU**RWY 04-22:** H2350X35 (ASPH) LIRL (NSTD)**RWY 04:** Thld dsplcd 122'. Trees. **RWY 22:** Tree.**AIRPORT REMARKS:** Attended irregularly. Call for fuel (704) 882-1102. Use caution due to extensive ultralight activity.

Farm equipment on and invof arpt. Birds and wildlife on and invof arpt. Rwy 04 ngt lds not authorized. Rwy 04-22 has 4' electric fence 65' from centerline on southeast side. Rwy 04-22 has 15' dropoff 50' from centerline on southeast side at midfield. Rwy 04-22 has 15' roads 55' from centerline both sides of rwy. Rgt tfc Rwy 04 and Rwy 22 for ultralights only. TPA for ultralights 1100(535), TPA for all other acft 1600(1035). Rwy 04-22 frist 400' southwest end unlgtd. Rwy 04-22 NSTD LIRL no thld lgs. Arpt lgs opr dusk-0530Z±.

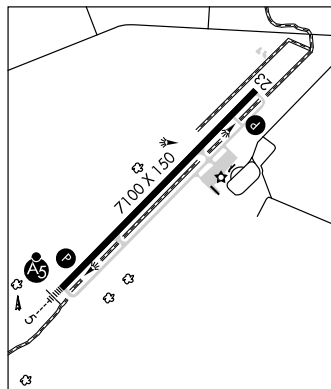
**COMMUNICATIONS:** CTAF/UNICOM 123.0**JAARS-TOWNSEND** (See WAXHAW)**JACKSON CO** (See SYLVA)**JACKSONVILLE****ALBERT J ELLIS** (OAJ) 10 NW UTC-5(-4DT) N34°49.75' W77°36.73'

CHARLOTTE

94 B S4 **FUEL** 100LL, JET A ARFF Index—See Remarks NOTAM FILE OAJH-9C, 12H, L-35B  
IAP**RWY 05-23:** H7100X150 (ASPH-GRVD) S-75, D-175, 2S-175, 2D-300 HIRL**RWY 05:** MALSR. PAPI(P4L)—GA 3.0°TCH 55'.**RWY 23:** REIL. PAPI(P4L)—GA 3.0°TCH 47'.**AIRPORT REMARKS:** Attended 1000-0100Z±. For fuel other hrs call 910-347-8366. CLOSED to air carrier ops with more than 30 passenger seats 0500-1000Z± except PPR call arpt manager 910-324-1100. Class I, ARFF Index A. Index B ARFF equipment is avbl. Arpt CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR. Call arpt manager Mon-Fri 910-324-1100. 180°turns on Rwy 05-23 not authorized for acft 60,000 pounds and over. ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05, REIL Rwy 23 and PAPI Rwy 05 and Rwy 23—CTAF. HIRL step 3 only.**WEATHER DATA SOURCES:** AWOS-3 124.475 (910) 324-5233.**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ WILMINGTON APP/DEP CON 135.75 (1100-0400Z±) CLNC DEL 121.4

Ⓡ WASHINGTON CENTER APP/DEP CON 135.75 (0400-1100Z±)

**AIRSPACE:** CLASS E svc Sun-Fri 1100-0500Z±, Sat 1100-0430Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE CRE.**GRAND STRAND (L) VORTAC** 117.6 CRE Chan 123 N33°48.83' W78°43.47' 045° 82.2 NM to fld.  
20/03W.**ELLAS NDB (LOM)** 261 OA N34°45.03' W77°42.27' 052° 6.6 NM to fld. Unmonitored. NOTAM FILE OAJ.**ILS/DME** 108.7 I-OA Chan 24 Rwy 05. LOM ELLAS NDB. LOM ELLAS NDB unmonitored.

**SKY MANOR** (N22) 8 W UTC-5(-4DT) N34°43.01' W77°35.53'

CHARLOTTE

60 NOTAM FILE RDU

**RWY 08-26:** 3610X85 (TURF)

**RWY 08:** Thld dsplcd 595'. Trees.

**RWY 26:** Trees.

**AIRPORT REMARKS:** Unattended. CAUTION—Areas of standing water on rwy after rains. Be alert, deer invof arpt. West half of rwy extremely soft when wet. Tkf and ldg in strong crosswinds not recommended due to severe drafts from trees. Rwy 08-26 marked with 2' yellow cones. Cones obscured by grass and brush. Private road parallels rwy on south side 20' from rwy edge, +30' hanger located 200' west of Rwy 26 thld and 100' right of centerline, +80' trees along north side of rwy edge from Rwy 08 thld to term area, +80' trees 400' from Rwy 08 and Rwy 26 thlds across entire apch.

**COMMUNICATIONS:** CTAF 122.9

## JEFFERSON

**ASHE CO** (GEV) 3E UTC-5(-4DT) N36°25.95' W81°25.18'

CINCINNATI

3180 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE GEV

L-25D

**RWY 10-28:** H4293X75 (ASPH) S-12.5 MIRL 1.8% up W

IAP

**RWY 10:** Trees.

**RWY 28:** REIL. VASI(V2L)—GA 3.3° TCH 44'. Brush.

**AIRPORT REMARKS:** Attended 1400-2200Z±. CLOSED Christmas day.

For svc after hrs call 336-877-1102. Rising terrain all quadrants.

Rwy 28 has an uphill grade. Rwsy 10 and 28 safety areas have

100 ft dropoffs 270 ft from thld. Rwy 28, 100' dropoffs 90' left

and right of centerline. Construction activity on ramp and twy.

Deer invof arpt. Rwy 28 mountain penetrates VASI glide slope.

ACTIVATE MIRL Rwy 10-28; VASI Rwy 28 and REIL Rwy 28—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.675 (336) 982-5555.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ ATLANTA CENTER APP/DEP CON 125.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

**HOLSTON MOUNTAIN (L) VORTAC** 114.6 HMV Chan 93 N36°26.22'

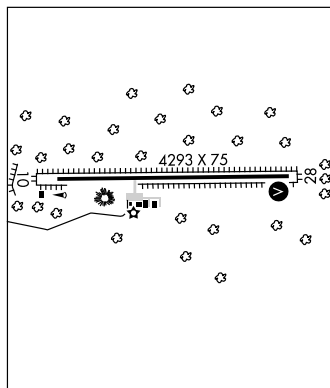
W82°07.77' 094° 34.4 NM to fld. 4321/04W.

**ASHEE NDB (MHW/LOM)** 410 JU N36°26.04' W81°19.32' 276°

4.7 NM to fld. NOTAM FLD GEV.

**ILS/DME** 109.35 I-JUH Chan 30 Rwy 28. LOM ASHEE

NDB. LOC only. DME unusable byd 15° left of course.



**JIGEL** N34°32.76' W79°08.30' NOTAM FILE LBT.

CHARLOTTE

**NDB (MHW/LOM)** 384 JB 054° 5.5 NM to Lumberton Muni.

L-24J, 35A, 36E

**JOHNSTON CO** (See SMITHFIELD)

## JONESVILLE

**SWAN CREEK** (78A) 3 SW UTC-5(-4DT) N36°12.14' W80°52.09'

CINCINNATI

1135 NOTAM FILE RDU

**RWY 10-28:** 2600X200 (TURF)

**RWY 10:** Trees.

**RWY 28:** Hill.

**RWY 02-20:** 1650X200 (TURF)

**RWY 02:** Road.

**RWY 20:** Trees.

**AIRPORT REMARKS:** Attended irregularly. Arpt CLOSED to transient acft. Parachute Jumping. No line-of-sight between rwy ends. Rwy 10 slopes uphill; Rwy 02 first half slopes uphill. Rwy 20+3' fence 40' prior to thld. Arpt phone 919-835-9555.

**COMMUNICATIONS:** CTAF 122.9

## JULIAN

**KECKS** (N88) 2 NE UTC-5(-4DT) N35°55.59' W79°37.65'

CHARLOTTE

724 NOTAM FILE RDU

**RWY 05-23:** 1400X75 (TURF)

**RWY 05:** Pole.

**RWY 23:** Pole.

**AIRPORT REMARKS:** Unattended. Agricultural equipment occasionally on rwy. Buildings on NW edge of rwy. 4 livestock fence below rwy grade across end of each rwy.

**COMMUNICATIONS:** CTAF 122.9

**JURLY** N35°28.50' W78°25.52' NOTAM FILE JNX.

CHARLOTTE

**NDB (MHW/LOM)** 263 JN 032°4.3 NM to Johnston Co. NDB unmonitored 2200-1300Z±.

L-35B, 36F

NDB unusable byd 15 NM.

**KATFI** N35°01.29' W77°04.77' NOTAM FILE EWN.  
**NDB (LOM)** 362 EW 038° 3.6 NM to COASTAL CAROLINA RGNL.

CHARLOTTE

**KEANS** N35°31.97' W82°35.25' NOTAM FILE AVL.  
**NDB (LOM)** 357 IM 163° 6.2 NM to Asheville Rgnl. ILS OTS 0330-1130Z± indef.

ATLANTA

**KECKS** (See JULIAN)

**KENAN** N35°04.34' W77°55.13' NOTAM FILE DPL.  
**NDB (MHW)** 332 DKA 223° 5.3 NM to Duplin Co.

CHARLOTTE

L-35B

## KENANSVILLE

**DUPLIN CO** (DPL) 2 NW UTC-5(-4DT) N35°00.00' W77°58.90'

CHARLOTTE

H-9C, 12H, L-35B

IAP

136 B S4 **FUEL** 100LL, JET A1 + OX 3 NOTAM FILE DPL

**RWY 05-23:** H6002X75 (ASPH) S-30, D-50 MIRL

**RWY 05:** REIL. PAPI(P2L)—GA 3.0° TCH 26'. Trees.

**RWY 23:** REIL. PAPI(P2L)—GA 3.0° TCH 44'. Trees.

**AIRPORT REMARKS:** Attended Apr-Oct Mon-Sat 1200-0000Z±, Sun 1800-0000Z±; Nov-Mar Mon-Sat 1300-2300Z±, Sun 1800-2300Z±. Deer/dogs/birds on and invof arpt. Twy lgts OTS indef. PAPI Rwy 05 and Rwy 23 opr continuously. ACTIVATE REIL Rwy 05 and Rwy 23—CTAF. MIRL Rwy 05-23 on until midnight. After midnight, ACTIVATE MIRL Rwy 05-23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.675 (910) 296-9688.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ **SEYMOUR JOHNSON APP/DEP CON** 119.7 (1200-0430Z±)

**WASHINGTON CENTER APP/DEP CON** 135.5 (0430-1200Z±)

**GCO** 135.075 (SEYMOUR JOHNSON CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

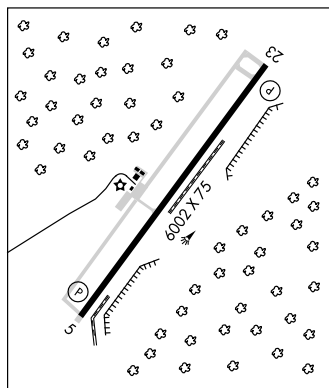
**KINSTON (L) VORTAC** 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 228° 30.5 NM to fld. 106/05W.

**KENAN NDB (MHW)** 332 DKA N35°04.34' W77°55.13'

223° 5.3 NM to fld. NOTAM FILE DPL.

**ILS** 110.1 I-PZR Rwy 23. LOC only. LOC unusable byd 20° left of course. Unmonitored.



## KILL DEVIL HILLS

**FIRST FLIGHT** (FFA) 1 W UTC-5(-4DT) N36°01.09' W75°40.28'

WASHINGTON

L-35D

13 TPA-813(800) NOTAM FILE FFA

**RWY 02-20:** H3000X60 (ASPH) S-10

**RWY 02:** Road. **RWY 20:** Brush. Rgt tfc.

**AIRPORT REMARKS:** Unattended. Airport CLOSED 30 minutes after SS until 30 minutes before SR. Hang gliding and powered hang gliding to 4000' invof arpt from SR-SS year round. Unmarked p-lines in apch area Rwy 02; 300' twr and tank ½ mile N of Rwy 20 thld. Deer and birds on and invof arpt. PPR Superintendent Cape Hatteras National Seashore, Manteo, NC, required for acft over 12,500 lbs. Windsock partially obscured by trees from apron. A maximum of 24 hrs parking permitted. No more than two overnight stays per month. Restroom facilities on site, key code access to Pilot Lounge.

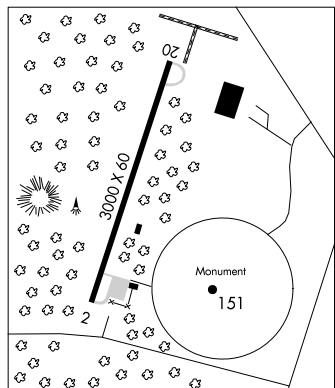
**WEATHER DATA SOURCES:** AWOS-3 118.075 (252) 449-0698.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MQI.

**WRIGHT BROTHERS (T) VORW/DME** 111.6 RBX Chan 53

N35°55.23' W75°41.82' 020° 6 NM to fld. 10/08W.



**KINSTON RGNL JETPORT AT STALLINGS FLD** (ISO) 3 NW UTC-5(-4DT)

N35°19.89' W77°36.53'

93 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE ISO

RWY 05-23: H11500X150 (ASPH-GRVD) S-90, D-135, 2S-175, 2D-260 HIRL

RWY 05: MALSR. PAPI(P4L)—GA 3.0° TCH 60'. Thld dsplcd 540'.

RWY 23: REIL. PAPI(P4L)—GA 3.0° TCH 74'. Pole.

**AIRPORT REMARKS:** Attended 1130-0300Z±. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-522-2922. When twr clsd ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05 and REIL Rwy 23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 132.75 (252) 522-2712. LAWRS.**COMMUNICATIONS:** CTAF 120.6 UNICOM 122.95

RCO 122.15R 109.6T (RALEIGH RADIO)

⑦ SEYMOUR JOHNSON APP/DEP CON 127.3 (1200-0430Z±)

WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z±)

TOWER 120.6 (1130-0300Z±) GND CON 121.9

**AIRSPACE:** CLASS D svc 1130-0300Z± other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

(L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 231° 3.4 NM to fld. 106/05W.

VOR portion unusable 221°-231° byd 30 NM blo 2000'.

STALS NDB (LOM) 276 IS N35°14.64' W77°41.90' 049° 6.8 NM to fld.

ILS 111.3 I-ISO Rwy 05. Class IT. LOM STALS NDB. Unmonitored when twr clsd. LOC BC unusable. MM  
OTS indef.

**LAKE NORMAN AIRPARK** (See MOORESVILLE)**LANEYS** (See MAIDEN)**LAURINBURG-MAXTON** (See MAXTON)**LEEEO** N35°29.84' W79°08.40' NOTAM FILE TTA.

NDB (MHW/LOM) 406 TT 028° 5.5 NM to Raleigh Exec Jetport at Sanford-Lee Co Rgnl.

CHARLOTTE

L-35B, 36F

**LEEVEY** N35°55.63' W78°43.32' NOTAM FILE RDU.

NDB (HW/LOM) 350 LE 234° 4.4 NM to Raleigh-Durham Intl.

CHARLOTTE

L-36F

**LEXINGTON****DAVIDSON CO** (EXX) 3 SW UTC-5(-4DT) N35°46.87' W80°18.23'

733 B S4 FUEL 100LL, JET A+ NOTAM FILE EXX

RWY 06-24: H5004X99 (ASPH) MIRL 0.6% up SW

RWY 06: REIL. PAPI(P2L)—GA 4.0° TCH 32'. Trees.

RWY 24: REIL. PAPI(P2L)—GA 3.0° TCH 32'. Trees.

**AIRPORT REMARKS:** Attended 1300-0230Z±. Wildlife on and invof arpt.

Follow taxiway centerline to parking. Maximum ramp weight

30,000 pounds single wheel, 60,000 pounds dual wheel. After

0500Z± ACTIVATE PAPI Rwy 06 and Rwy 24, REIL Rwy 06 and Rwy

24—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.825 (336) 956-2967.**COMMUNICATIONS:** CTAF/UNICOM 122.8

⑦ GREENSBORO APP/DEP CON 118.5

GCO 135.075 (GREENSBORO CLNC and FLIGHT SERVICES)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 228° 22.5 NM to fld. 879/3W. HIWAS.

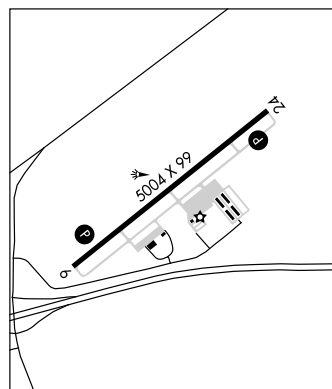
ILS/DME 108.75 I-EXX Chan 24(Y) Rwy 06

**COMM/NAV/WEATHER REMARKS:** GCO OTS indef.

CHARLOTTE

H-9B, 12H, L-25D, 36F

IAP

**LIBERTY** N35°48.70' W79°36.76' NOTAM FILE RDU.

(L) VORTAC 113.0 LIB Chan 77 001° 6.1 NM to Causey. 830/03W.

RCO 122.1R 113.0T (RALEIGH RADIO)

CHARLOTTE

H-9C, 12H, L-25E, 36F

# **LIBERTY**

## **CAUSEY**

(2A5) 4 NW UTC-5(-4DT) N35°54.71' W79°37.06'

723 B S4 FUEL 100LL, JET A1+ OX 1 NOTAM FILE RDU

RWY 02-20: H3800X40 (ASPH) S-8 LIRL(NSTD)

RWY 02: Trees.

RWY 20: Tree.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z $\pm$ , Sun 1800-2200Z $\pm$ . CLOSED New Year's Day, Easter, Jul 4th, Thanksgiving and Christmas. Fuel tank located 500' from Rwy 20 thld and 125' left. Rwy 02-20 NSTD LIRL; thld lgts located in the grass area 200' before the apch end Rwy 02; Rwy 20 thld lgts located in the grass area 300' before the AER 20. Rwy 02-20 NSTD LIRL lgts smaller than standard and 20' from pavement edge. Rwy 02 numbers NSTD basic; smaller than normal. Rwy 20 NSTD markings; smaller than normal. Soft dirt all rwy edges; exit ramp and twy. Building and parked acft within 90' of centerline at N end of rwy.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® GREENSBORO APP/DEP CON 118.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

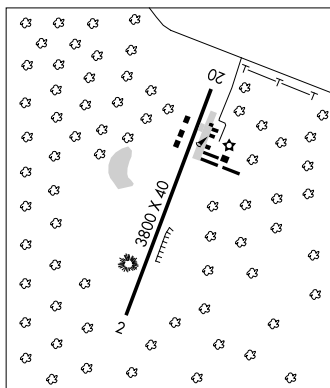
LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70'

W79°36.76' 001° 6.1 NM to fld. 830/03W.

**CHARLOTTE**

**L-25A, 36F**

**IAP**



## **HINSHAW (GREENACRES)**

(N61) 3 NE UTC-5(-4DT) N35°52.42' W79°31.65'

750 NOTAM FILE RDU

RWY 03-21: 1400X100 (TURF)

RWY 03: Trees.

RWY 21: Trees.

**AIRPORT REMARKS:** Unattended. Ultralight activity on and invof arpt. 4' fence end of Rwy 3 and along both sides of rwy in primary surface. Rwy 03-21 width 50' maintained regularly. Arpt in traffic pattern of Causey Airport 2A5 (2 miles east) CTAF 122.8.

**COMMUNICATIONS:** CTAF 122.9

**CHARLOTTE**

## **LINCOLNTON-LINCOLN CO RGNL**

(IPJ) 5 E UTC-5(-4DT) N35°29.00' W81°09.68'

877 B S4 FUEL 100LL, JET A1+ OX 2, 4 NOTAM FILE IPJ

RWY 05-23: H5500X100 (ASPH) S-30, D-60 MIRL

RWY 05: REIL. PAPI(P2L) GA-3.40° TCH 64'.

RWY 23: REIL. PAPI(P2L) GA-3.45° TCH 30'. Thld dsplcd 210'. Trees.

**AIRPORT REMARKS:** Attended Apr-Oct 1300-0100Z $\pm$ , Nov-Mar 1300-0000Z $\pm$ . CLOSED Christmas Day. Deer, coyote and birds on and invof arpt. Rwy 23 has a 90' dropoff 100' from pavement. MIRL Rwy 05-23 preset low ints, to increase ints and ACTIVATE REIL and PAPI Rwy 05 and Rwy 23-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.675 (704) 735-6954.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

® CHARLOTTE APP/DEP CON 134.75 CLNC DEL 124.9

GCO 124.9 (CHARLOTTE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'

W80°57.11' 335° 20.4 NM to fld. 732/05W. HIWAS.

LINCOLNTON NDB (MHW) 432 IZN N35°32.26' W81°05.19'

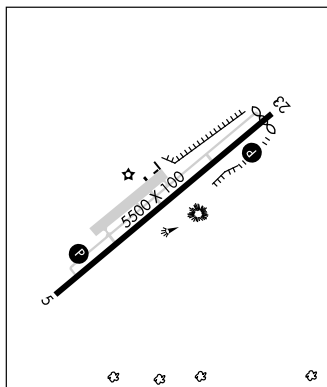
234° 4.9 NM to fld. NOTAM FILE RDU.

ILS 111.15 I-IPJ Chan 48(Y) Rwy 23.

**CHARLOTTE**

**H-9B, 12G, L-25D**

**IAP**



## **LONE HICKORY**

(See YADKINVILLE)

## LOUISBURG

## TRIANGLE NORTH EXECUTIVE

(LHZ) 5 SW UTC-5(-4DT) N36°01.40 W78°19.82'

CHARLOTTE

369 B S4 FUEL 100LL, JET A1+ NOTAM FILE LHZ  
 RWY 05-23: H5498X100 (ASPH) S-40, D-60 MIRL 0.7% up SW

H-9C, 12H, L-35B, 36G  
 IAP

RWY 05: MALSR. PAPI(P2L) GA-3.0° TCH 23'. Trees. Rgt tfc.  
 RWY 23: REIL. PAPI(P2L) GA-3.0° TCH 46'. Trees.

**AIRPORT REMARKS:** Attended 1300Z±-0000Z±. Arpt phone  
 919-496-1234; for svc after hrs call 919-729-4118. Arpt  
 unattended Thanksgiving and Christmas. Birds on and invof arpt.  
 ACTIVATE MIRL Rwy 05-23 and REIL Rwy 23 and MALSR Rwy  
 05—CTAF; PAPI Rwy 05 and Rwy 23 opr continuous until dusk.  
 After dusk ACTIVATE PAPI Rwy 05 and Rwy 23—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.325 (919) 497-0810.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

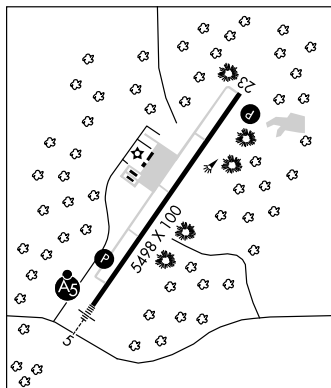
⑧ RALEIGH APP/DEP CON 125.3

GCO 135.075 (RALEIGH CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan  
 119 N35°52.35' W78°47.00' 072° 23.9 NM to fld.  
 429/04W.

ILS/DME 109.35 I-LHZ Chan 30(Y) Rwy 05. Class IA.



## LUMBERTON MUNI

(LBT) 3 W UTC-5(-4DT) N34°36.60' W79°03.57'

CHARLOTTE

126 B S4 FUEL 100LL, JET A1+ NOTAM FILE LBT  
 RWY 05-23: H5510X150 (ASPH) S-15 PCN 100 F/B/Y/T MIRL

H-9C, 12H, L-24J, 35A, 36E  
 IAP

RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Thld dspcd 170'.  
 Trees.

RWY 23: REIL. VASI(V4L)—GA 3.0° TCH 45'. Trees.

RWY 13-31: H4998X150 (ASPH) S-8 PCN 100 F/B/Y/T

RWY 13: Trees. RWY 31: Thld dspcd 590'.

**AIRPORT REMARKS:** Attended 1300-0000Z±. For fuel after hrs call  
 910-618-9958. Deer and birds on and invof arpt. Rwy 05-23 and  
 13-31 no line of sight between rwy ends. Rwy 05 REIL OTS indef.  
 MIRL Rwy 05-23 preset low ints; to increase ints and ACTIVATE  
 REIL and PAPI Rwy 05 and VASI Rwy 23—CTAF.

**WEATHER DATA SOURCES:** ASOS 134.775 (910) 671-1906.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

⑧ FAYETTEVILLE APP/DEP CON 133.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13'  
 W78°52.50' 206° 24.3 NM to fld. 179/04W.

(T) VORW 110.0 LBT N34°36.64' W79°03.29' at fld.  
 NOTAM FILE LBT.

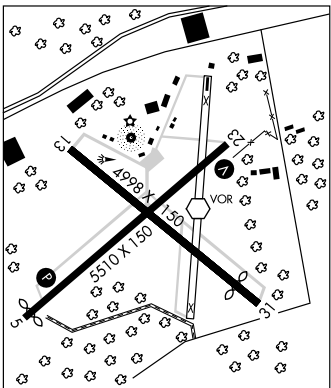
VOR unusable: 061°-134° blo 3,000', 135°-164° byd 15 NM  
 blo 3,000', 165°-185°, 186°-199° byd 15 NM blo 3,000', 200°-230°, 231°-060° byd 15 NM blo 3,000'.

JIGEL NDB (MHW/LOM) 384 JB N34°32.76' W79°08.30' 054° 5.5 NM to fld. NOTAM FILE LBT.

ROBESON NDB (MHW) 359 RSY N34°36.81' W79°03.59' at fld. NOTAM FILE LBT.

ILS 108.95 I-JBD Rwy 05. LOM JIGEL NDB.

**COMM/NAV/WEATHER REMARKS:** VOR and NDB unmonitored 0100-1300Z± Mon-Fri, 0000-1500Z± Fri and Sat,  
 0000-1300Z± Sun and Mon.





**MACKALL AAF** (HFF) A 1 E UTC-5(-4DT) N35°02.20' W79°29.84'

**CHARLOTTE**

376 B NOTAM FILE RDU Not insp.

**L-35A, 36F**

**RWY 04-22:** H4997X150 (ASPH) PCN 32 F/B/W/T

**DIAP**

**RWY 16-34:** H4916X150 (CONC)

**RWY 11-29:** H4740X150 (CONC) PCN 10 R/D/W/T HIRL

**RWY 11:** REIL. Thld dsplcd 501'. **RWY 29:** REIL.

**MILITARY SERVICE:** LGT Rwy lgts intermittent between SR/SS due to local night vision training, non-participating acft ctc twr to incr ints. **FUEL** J8

**MILITARY REMARKS:** Opr Mon-Sat 1310-0500Z†. Except holidays. Airfield subject to closing on short notice. See FLIP AP/1 flight hazard Sandhills VORTAC. **RSTD** All C-130 PPR phone C(919) 396-6230/V236-6230. Twy D ltd to ACN 32 R/B/X/T. Rwy 16-34 CLOSED until further notice. Rwy 11-29 CLOSED until further notice. Closed to all fixe wing. **CAUTION** Extensive military acft in vicinity of airfield, day and night. 120' communication antenna located WSW corner of fire station. Advisory: Rng Ctl 121.0, 304.6. **MISC** Contact twr chief DSN 236-7308/9775 during opr hours, other times DSN 236-7804. No engine will be shutdown on Rwy 04-22 or Twy H. Weather forecast avbl from Simmons AAF via direct line.

**COMMUNICATIONS:** ATIS 141.4

**FAYETTEVILLE APP/DEP CON** 127.8 343.725

**TOWER** 121.0 254.4 (Mon-Sat 1310-0500Z†), except Federal holidays **GND CON** 128.35 251.05 41.75

**PMSV METRO** 141.25 265.6 (Mon 0500Z†-Sat 0400Z†)

**BASE OPS** 395.225 **RANGE RDO** 139.35 249.9 38.9

**AIRSPACE:** CLASS D svc Mon-Sat 1310-0500Z†, except Federal holidays, other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 160° 11.6 NM to field. 590/03W.

**NDB (MHW)** 278 HFF N35°01.68' W79°29.14' at fld. Unmonitored 0500-1300Z†. No NOTAM MP 1st Tue 0400-1200Z†.

**MACON CO** (See FRANKLIN)

## MAIDEN

**LANEYS** (N92) 3 SE UTC-5(-4DT) N35°34.46' W81°07.04'

**CHARLOTTE**

1025 NOTAM FILE RDU

**RWY 13-31:** 2400X75 (TURF)

**RWY 05-23:** 2000X100 (TURF)

**RWY 05:** P-line. **RWY 23:** P-line.

**AIRPORT REMARKS:** Attended 1300-dusk. Ultralight acft opr on and invof arpt. Rwy 05, Rwy 23 and Rwy 31 has unmarked p-lines across rwy thlds. Rwy 05 and Rwy 13 for preferred landing (uphill). Rwy 13 has no line of site from rwy end.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**MANTEO** N35°54.92' W75°41.70' NOTAM FILE MQI.

**CHARLOTTE**

**NDB (MHW)** 370 MQI at Dare Co. Rgnl. Unmonitored 2300-1300Z†.

**L-35D**

**MANTEO****DARE CO RGNL** (MQI) 1 NW UTC-5(-4DT) N35°55.14' W75°41.73'

CHARLOTTE

13 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE MQI

L-35D

**RWY 05-23:** H4305X100 (ASPH) S-48 MIRL

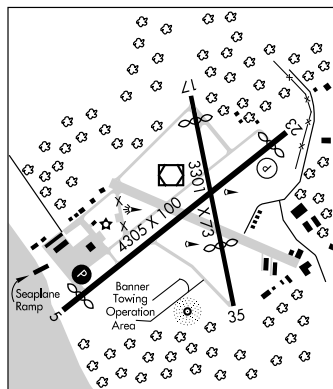
IAP, AD

**RWY 05:** REIL. PAPI(P2L)—GA 3.0° TCH 28'. Thld dspcd 305'.**RWY 23:** PAPI(P2L)—GA 4.0°. Thld dspcd 301'. Trees.**RWY 17-35:** H3301X73 (ASPH) S-20 MIRL**RWY 17:** Thld dspcd 289'. Trees.**RWY 35:** Thld dspcd 989' Trees.**AIRPORT REMARKS:** Attended 1300-0000Z†. CLOSED Christmas day.

After hrs self svc fuel avbl with credit card—100LL. Call  
 252-216-7028 or 252-216-8407. 300' crane 3 NM SW AER 05.  
 200' lgtd crane 2 NM SSW of arpt. Banner towing ops 200' W of  
 Rwy 05. Migratory waterfowl Oct-Feb. Rwy 05 15' dropoff 40' from  
 thld. Rwy 23 PAPI OTS indef. ACTIVATE MIRL Rwys 05-23 and  
 17-35, PAPI and REIL Rwy 05—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 128.275 (252) 473-2826.**COMMUNICATIONS:** CTAF/UNICOM 122.8**WASHINGTON CENTER APP/DEP CON** 124.725**RADIO AIDS TO NAVIGATION:** NOTAM FILE MQI.**WRIGHT BROTHERS (T) VORW/DME** 111.6 RBX Chan 53

N35°55.23' W75°41.82' at fld. 10/08W.

**MANTEO NDB (MHW)** 370 MQI N35°54.92' W75°41.70' at fld.**COMM/NAV/WEATHER REMARKS:** VORW/DME and NDB unmonitored 2300-1300Z†.**MARION****SHIFLET FLD** (9A9) 3 N UTC-5(-4DT) N35°43.24' W82°00.59'

ATLANTA

1212 B S4 **FUEL** 100LL NOTAM FILE RDU**RWY 10-28:** 3340X180 (TURF) LIRL**RWY 10:** Trees. **RWY 28:** Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. For fuel call 828-655-1306 cash only. Rwy subject to flooding  
 after very heavy rains on east end. Hangers are spaced closer than normal; slower taxi speeds required.

ACTIVATE LIRL Rwy 10-28 and arpt beacon—CTAF.

**COMMUNICATIONS:** CTAF 122.9**MARKY** N36°10.02' W80°02.14' NOTAM FILE GSO.

CINCINNATI

**NDB (LOM)** 254 GS 139° 6.3 NM to Piedmont Triad International. (Unmonitored)

L-25E, 36F

**MARTIN CO** (See WILLIAMSTON)**MAXTN** N34°44.04' W79°26.66' NOTAM FILE RDU.

CHARLOTTE

**NDB (MHW/LOM)** 257 ME 056° 5.2 NM to Laurinburg-Maxton. OM OTS indef.

L-35A, 36E

**MAXTON****LAURINBURG—MAXTON** (MEB) 3 N UTC-5(-4DT) N34°47.52' W79°21.95'**CHARLOTTE**

216 B S2 FUEL 100LL, JET A1+ NOTAM FILE MEB

H-9C, 12H, L-35A, 36E

RWY 05-23: H6503X150 (CONC) S-25, D-35 HIRL

IAP

RWY 05: MALSR. PAPI(P4L)—GA 3.0°TCH 51'. Trees.

RWY 23: PAPI(P4L)—GA 3.0°TCH 50'. Trees. Rgt tfc.

RWY 13-31: H3753X150 (CONC) S-25, D-35 MIRL

RWY 13: Trees. Rgt tfc.

**AIRPORT REMARKS:** Attended Mon-Fri 1300Z±-2200Z±. For svc after hrs call 910-277-0367 or 910-318-6907. 24 hr self svc with credit card. For airframe repairs call arpt to arrange for svc. Parachute Jumping. Heavy parachute jumping at south end of closed Rwy 18-36 and south side of Rwy 13-31. Farming equipment and military operations on and invof arpt. Rwy 13-31 spalling, heaving, cracks and loose gravel on rwy due to failed pavement areas. Upslope first 1000' Rwy 23 restricted sight distance to SW end of rwy. Parallel and connector twys on Rwy 13-31 clsd and unusable. ACTIVATE MALSR Rwy 05, PAPI Rwy 05 and Rwy 23, HIRL Rwy 05-23—CTAF. For MIRL Rwy 13-31 ctc arpt manager 910-277-3067 or 910-318-6907.

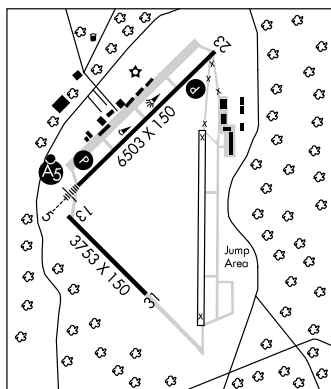
**WEATHER DATA SOURCES:** ASOS 134.125 (910)844-5338.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ FAYETTEVILLE APP/DEP CON 127.8

GCO 135.075 (FAYETTEVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 160° 27.6 NM to fld. 590/03W.**MAXTN NDB (MHW/LOM)** 257 ME N34°44.04' W79°26.66' 056° 5.2 NM to fld. OM OTS indef.

ILS 110.7 I-MEB Rwy 05. Class IB. LOM MAXTN NDB. LOC/GS unmonitored SS-SR. OM/MM unmonitored. OM OTS indef.

**MCCUTCHEON FLD** (See NEW RIVER MCAS)**MEADOW BROOK FLD** (See WALNUT COVE)**MEBANE****HURDLE FLD** (4W7) 2 SW UTC-5(-4DT) N36°04.01' W79°16.98'**CINCINNATI**

680 NOTAM FILE RDU

RWY 03-21: 2200X150 (TURF)

RWY 03: Road. RWY 21: P-line.

**AIRPORT REMARKS:** Attended irregularly. Rwy 21 unmarked p-line is difficult to see.**COMMUNICATIONS:** CTAF 122.9**MEYERS HELIPORT** (See CANDLER)**MICHAEL J. SMITH FLD** (See BEAUFORT)

**MOCKSVILLE****SUGAR VALLEY** (31A) 6 NE UTC-5(-4DT) N35°59.12' W80°30.67'**CHARLOTTE**

731 TPA-1500(769) NOTAM FILE RDU

**RWY 02-20:** H2424X25 (ASPH) LIRL (NSTD)**RWY 02:** Trees. Rgt tfc. **RWY 20:** Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1400-2100Z. Arpt CLOSED to transient acft 2300-1100Z. Be alert for 55' trees 50' from Rwy 20 thld during ngt ops. Day VFR ops for transient acft only. Recommended ldg Rwy 02 and tkf Rwy 20 due to obstructing trees on NE end. Rwy 02-20 safety area has hazardous depressions as close as 15' from pavement. Rwy 02 rwy numbers are smaller than standard. Rwy 20 rwy numbers are smaller than standard. Rwy 02-20 NSTD LIRL; not FAA approved L-800 series. Thld lgts 13' from pavement. ACTIVATE LIRL Rwy 02-20-CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

710

**WATERWAY 02-20:** 2000X100 (WATER)**WATERWAY 02:** Trees. **WATERWAY 20:** Ground.**SEAPLANE REMARKS:** Rwy 02W-20W CLOSED indef due to low water levels.**TWIN LAKES** (8A7) 5 NE UTC-5(-4DT) N35°54.89' W80°27.41'**CHARLOTTE**

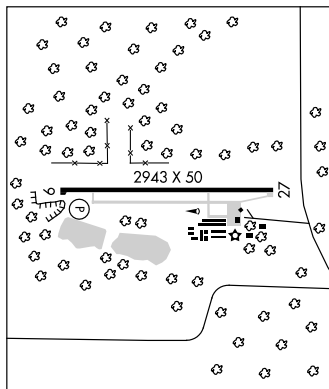
818 B S4 FUEL 100LL TPA-1618(800) NOTAM FILE RDU

**RWY 09-27:** H2943X50 (ASPH) S-12.5 LIRL 1.5% up E**RWY 09:** PAPI(P2R). Trees. **RWY 27:** Trees.

**AIRPORT REMARKS:** Attended 1300-2200Z. Fuel 24 hr self service with credit card. Deer/migratory birds occasionally on arpt. Rwy 09 18 ft drop-off 150 ft from thld left and right of centerline. Rwy 09 PAPI ops dusk-dawn.

**COMMUNICATIONS:** CTAF/UNICOM 122.7® **GREENSBORO APP/DEP CON** 124.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 255° 24.7 NM to fld. 879/03W. HIWAS.

**L-25D, 36F****IAP**

## MONROE

**CHARLOTTE—MONROE EXECUTIVE** (EQY) 5 NW UTC-5(-4DT) N35°01.13' W80°37.21'

CHARLOTTE

679 B S4 FUEL 100LL, JET A+ OX 3, 4 NOTAM FILE EQY  
RWY 05-23: H5500X100 (ASPH) S-25 D-38 HIRL 0.3% up SW

H-9B, 12G, L-25D, 36E  
IAP

RWY 05: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 41'.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 44. Road.

**AIRPORT REMARKS:** Attended 1100-0300Z†. For after hr svc, phone 704-289-2615 or 704-320-6256. 24 hr self svc fuel, avbl for all fuel types with credit card. Deer, wildlife, and birds on and in/ov arpt. Unlighted construction crane located less than 1/4 mile southeast of Rwy 05-23. Arpt phone number 704-226-2300.

ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05—CTAF. REIL Rwy 05 and 23 opr dusk-0500Z†. After 0500Z†, ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** ASOS 135.775 (704) 283-5185.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ CHARLOTTE APP/DEP CON 120.05 CLINC DEL 132.55

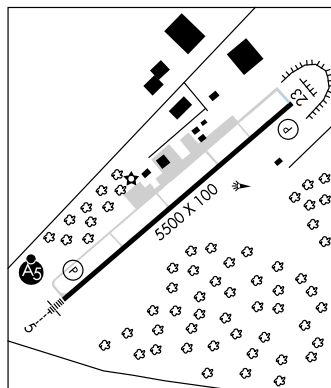
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 127° 19.3 NM to fld. 732/05W. HIWAS.

FORT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.35' W80°57.27' 086° 16.6 NM to fld. 645/02W. NOTAM FILE AND. SHUTDOWN.

WESLEY NDB (MHW) 204 TWL N34°57.18' W80°42.31' 052° 5.8 NM to fld. NOTAM FILE EQY. NDB unmonitored 2200-1300Z†.

ILS 109.75 I-EQY Rwy 05. Class IA. LOC unmonitored 2200-1300Z†. Coupled apch not authorized b/c 1120'.



**MONTGOMERY CO** (See STAR)

**MOORE CO** (See PINEHURST/SOUTHERN PINES)

## MOORESVILLE

**LAKE NORMAN AIRPARK** (14A) 5 NW UTC-5(-4DT) N35°36.83' W80°53.97'

CHARLOTTE

L-25D, 36E

839 B S4 FUEL 100LL NOTAM FILE RDU

RWY 14-32: H3147X40 (ASPH) S-8 MIRL 1.0% up SE

RWY 14: PVASI(PSIR)—GA 4.0° TCH 15'. Trees. Thld displcd 185'.

RWY 32: PVASI(PSIR)—GA 4.0° TCH 5'. Road.

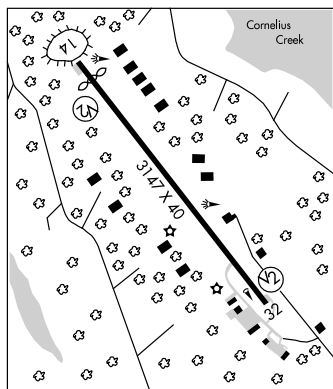
**AIRPORT REMARKS:** Attended 1300-2300Z†. Dep Rwy 14 heading 160° to avoid school. Full acft maintenance avbl ctc 704-662-6986. VFR operations only. Rwy 14 has uphill grade. Acft taxiing on grass in vicinity of residential airpark hanger access. Rwy numbers NSTD. Rwy 14 small numbers. Rwy 32 has 10' drop off 5' fm left side of pavement and acft parked 200' fm end of Rwy 100' right of centerline. Noise sensitive area. Avoid departures between 0400 and 1100Z†. ACTIVATE MIRL Rwy 14-32—CTAF. PVASI opr dusk-dawn.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ CHARLOTTE APP/DEP CON 134.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 11° 25.5 NM to fld. 732/05W. HIWAS.



**MOREHEAD** N34°43.87' W76°39.73' NOTAM FILE MRH.

CHARLOTTE

NDB (MHW) 269 MRH at Michael J. Smith Fld. NDB unmonitored.

L-35B

**MORGANTON****FOOTHILLS RGNL**

(MRN) 6 NE UTC-5(-4DT) N35°49.21' W81°36.68'

1270 B S5 FUEL 100LL, JET A1 + OX 1, 4 NOTAM FILE MRN

RWY 03-21: H5500X75 (ASPH) D-60 MRL 0.7% up NE

RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 66'.

RWY 21: REIL. PAPI(P4R)—GA 3.5° TCH 50'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300Z±-SS, Sun 1400Z±-SS.

After hrs fuel or svc call 828-757-0099. Glider activity dalgt hrs.

Deer and coyote on and invof arpt. Rwy 03, 100' dropoff 330'

from thld and 80' both sides of centerline along first 1000' of rwy.

Rwy 21, 30' dropoff 400' from thld both sides and 10' dropoff 50'

from thld and 150' right of centerline. ACTIVATE MRL Rwy 03-21,

REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and Rwy 21-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 124.175 (828) 757-0788.**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ ATLANTA CENTER APP/DEP CON 125.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**BARRETT'S MOUNTAIN (L) VOR/DME** 110.8 BZM Chan

45 N35°52.13' W81°14.43' 267° 18.3 NM to fld.

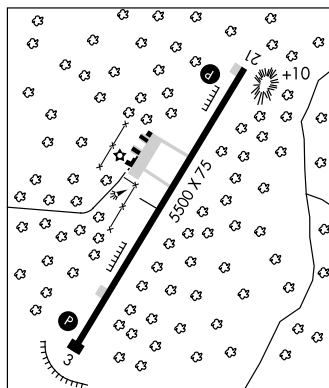
1880/06W.

**FIDDLERS NDB (MHW)** 391 FIQ N35°42.61' W81°40.28'

031° 7.2 NM to fld. NDB unusable byd 20 NM. NDB located

41,900' from threshold Rwy 03 and 400' SE of extended

centerline.

**ILS** 111.1 I-MRN Rwy 03. Localizer only.

CHARLOTTE

H-9B, 12G, L-25C

IAP

**MOUNT AIRY/SURRY CO**

(MWK) 3 SE UTC-5(-4DT) N36°27.58' W80°33.18'

1249 B S2 FUEL 100LL, JET A1+ NOTAM FILE MWK

RWY 18-36: H4301X75 (ASPH) S-10 MRL 0.9% up N

RWY 18: PAPI(P2L)—GA 4.0° TCH 27'. Thld dspld 490'. Trees.

RWY 36: PAPI(P2L)—GA 3.0° TCH 26'. Trees.

**AIRPORT REMARKS:** Attended 1300Z±-dark. After hr svc avbl/posted on

door. CAUTION—Trees elevation 1235 ft located 150 ft S and 100

ft E of threshold Rwy 36. Rwy 36-50 ft drop-off 300 ft from thld

and 150 ft right and left of centerline. Rwy 18-36 opr

dusk-0330Z±; after 0330Z± ACTIVATE—CTAF. ACTIVATE PAPI

Rwys 18 and 36 and REIL Rwy 36—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 121.125 (336) 789-2299.**COMMUNICATIONS:** CTAF/UNICOM 123.0

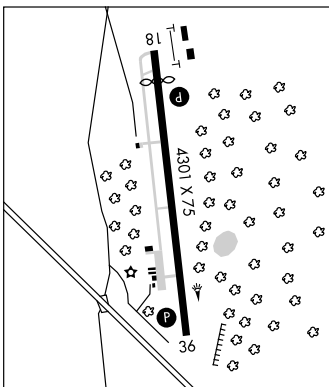
Ⓡ GREENSBORO APP/DEP CON 124.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.**GREENSBORO (H) VORTAC** 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 315° 37.4 NM to fld. 879/03W. HIWAS.

**NDB (MHW)** 223 AZW N36°22.86' W80°32.41' 360° 4.8

NM to fld. NOTAM FILE MWK. Unmonitored 2300-1200Z±.



CINCINNATI

L-26I

IAP

**MT OLIVE MUNI** (W40) 3 NE UTC-5(-4DT) N35°13.29' W78°02.32'

168 B S4 **FUEL** 100LL OX 1,2 NOTAM FILE RDU

**RWY 05-23:** H5255X75 (ASPH) S-20 MIRL

**RWY 05:** PAPI(P2L)—GA 3.5° TCH 40'. Trees.

**RWY 23:** PAPI(P2L)—GA 3.0° TCH 34'. Thld dspcd 254'. Crops.

**AIRPORT REMARKS:** Attended 1300-2300Z±. CLOSED on major holidays, for svc after hrs call 252-234-7778. 24 hr self svc with credit card. -5' drainage ditch 100' left of centerline of Rwy 05. Low level military activity near arpt. For collision avoidance ctc Seymour AFB 119.7. ACTIVATE and incr ints MIRL Rwy 05-23 and PAPI Rwy 05 and Rwy 23.

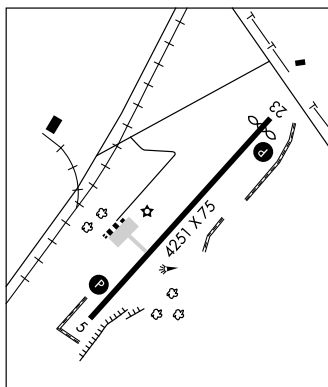
**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **SEYMOUR JOHNSON APP/DEP CON** 119.7 (1200-0430Z±)

**WASHINGTON CENTER APP/DEP CON** 135.5 (0430-1200Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

**KINSTON (L) VORTAC** 109.6 ISO Chan 33 N35°22.26' W77°33.50' 254° 25.2 NM to fld. 106/05W.



**CHARLOTTE**

H-9C, L-35B, 36F

IAP

**NEW BERN** N35°04.39' W77°02.70' NOTAM FILE EWN.

(L) **VOR/DME** 113.6 EWN Chan 83 at Coastal Carolina Rgnl. 10/08W.

VOR portion unusable 120°-160°. DME portion unusable 065°-330° byd 30 NM blo 3000'.

**RCO** 122.4 122.2 (RALEIGH RADIO)

**RCO** 122.1R 113.6T (RALEIGH RADIO)

**CHARLOTTE**

L-35B

## NEW BERN

**COASTAL CAROLINA RGNL** (EWN) 3 SE UTC-5(-4DT) N35°04.38' W77°02.58'

18 B S4 **FUEL** 100LL, JET A Class I, ARFF Index A NOTAM FILE EWN

**RWY 04-22:** H6004X150 (ASPH-GRVD) S-30, D-62, 2D-140 HIRL

**RWY 04:** REIL. PAPI(P4L).

**RWY 22:** REIL. PAPI(P4L). Trees.

**RWY 14-32:** H4000X150 (ASPH) S-28, D-45 MIRL

**RWY 14:** REIL. PAPI(P2L). Trees.

**RWY 32:** REIL. PAPI(P2L). Tree.

**AIRPORT REMARKS:** Attended 1000-0430Z±. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-638-8591. Rwy 14 PAPI OTS indef. ACTIVATE HIRL Rwy 04-22, REIL Rwy 04 and Rwy 22, MIRL Rwy 14-32 and REIL Rwy 14 and Rwy 32—CTAF. PAPI Rwys 04, 22, 14 and 32 opr 24 hrs.

**WEATHER DATA SOURCES:** ASOS 118.525 (252) 514-2086.

**COMMUNICATIONS:** CTAF 124.25

**RCO** 122.4 122.2 (RALEIGH RADIO)

**RCO** 122.1R 113.6T (RALEIGH RADIO)

Ⓡ **CHERRY POINT APP/DEP CON** 119.35 **CLNC DEL** 120.525 (0300-1100Z±)

**NEW BERN TOWER** 124.25 (1100-0300Z±)

**GND CON** 121.7 **CLNC DEL** 121.7

**AIRSPACE:** CLASS D svc 1100-0300Z± other times CLASS E.

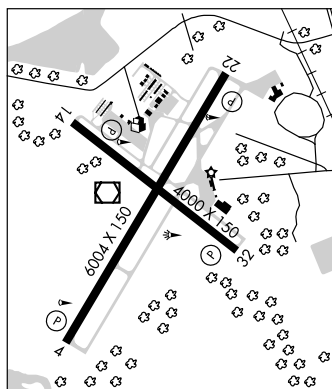
**RADIO AIDS TO NAVIGATION:** NOTAM FILE EWN.

**NEW BERN (L) VOR/DME** 113.6 EWN Chan 83 N35°04.39' W77°02.70' at fld. 10/08W.

**KATFI NDB (LOM)** 362 EW N35°01.29' W77°04.77' 038° 3.6 NM to fld.

**ILS** 110.5 I-EWN Rwy 04. LOM KATFI NDB.

**ASR** (Mon-Fri 1100-0500Z±, Sat 1300-2100Z±, Sun 2000-0400Z±)



**CHARLOTTE**

H-9C, L-35B

IAP, AD

**NEW RIVER MCAS** (MCCUTCHEON FLD) (NCA)(KNCA) MC 3 S UTC-5(-4DT)

CHARLOTTE

H-9C, L-35B

DIAP, AD

N34°42.51' W77°26.38'

26 B NOTAM FILE NCA

Not insp.

RWY 05-23: H5114X150 (ASPH) PCN 80 F/B/W/T HIRL

RWY 05: SALSF. PAPI(P4L)—GA 3.0° TCH 47'. RWY 23: PAPI(P4L)—GA 3.0° TCH 37'.

RWY 01-19: H4790X150 (ASPH) PCN 80 F/B/W/T HIRL

RWY 01: SALSF. PAPI(P4R)—GA 3.0° TCH 45'. RWY 19: PAPI(P4L)—GA 3.0° TCH 41'.

**MILITARY SERVICE:** LGT Rwy 19 and Rwy 23 thld lgt vary from 1' to 15' from edge of the pavement. Non standard PCL all rwy. VHF 120.0 3 clicks step 1, 5 clicks step 3, 7 clicks off. Expect 20 seconds delay for lgt to activate.

ACTIVATE HIRL Rwy 01-19 and HIRL Rwy 05-23—120.0. **FUEL** J5 Fuel svc Mon-Fri 1300Z until 1 hr prior to fld closure, clsd Sat, Sun and holidays.

**TRAN ALERT** PPR Mon-Thu 1300-0300Z, Fri 1300-0000Z, clsd Sat, Sun and holidays. For acft remaining overnight ctc host unit. No clsd fld authorized for tran acft.

**MILITARY REMARKS:** Opr Mon-Thu 1300-0600Z, Fri 1300-0000Z, clsd Sat, Sun and holidays. See FLIP AP/1 Supplement Arpt Remarks. **RSTD** PPR all transient acft (minimum 24 hr in advance). Call Base Ops DSN 752-6311/6316, C910-449-6311/6316. Twy A at mid-fld clsd to C-130 and larger acft. **CAUTION** Bird hazard Oct-Apr. Wildlife hazard on arpt, especially SS-SR. **TFC PAT** Tactical jets prohibited, non-vertical and short takeoff and landing only. **NS ABTMT** Touch and go not avbl after 0400Z. **MISC** All acft with passenger/cargo/Distinguished Visitor ctc Base Ops 20 min prior to landing.

**WEATHER DATA SOURCES:** ASOS 288.325. ASOS transmits on PMSV 244.775 when airfield clsd.

**COMMUNICATIONS:** ATIS 288.325 (24hr; Unmonitored when field clsd)

Ⓡ **CHERRY POINT APP/DEP CON** 119.35 377.175

**TOWER** 120.0 360.2 323.25 **ARRIVAL** 124.85 279.575 (Mon-Thu 1300-0600Z, Fri 1300-0000Z, clsd Sat, Sun and holidays.) **GND CON** 121.8 254.275 **CLNC DEL** 239.025

**PMSV METRO** 244.775 (daily 1100-2200Z other times frequency broadcast ASOS) Unmonitored after 2200Z.

**NEW RIVER OPS** 253.3

**AIRSPACE: CLASS D** (Mon-Thu 1300-0600Z, Fri 1300-0000Z, clsd Sat, Sun and holidays, other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

(L) **TACAN** Chan 101 NCA (115.4) N34°42.43' W77°26.42' at fld. 74/8W. Unmonitored and ident off when fld not opr.

**ILS/DME** 111.1 I-NCA Rwy 01. GS unusable byd 4° left of course and 7° right of course.

**ASR/PAR**

**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.

**NORTHEASTERN RGNL** (See EDENTON)**NORTH WILKESBORO**

**WILKES CO** (UKF) 4NE UTC-5(-4DT) N36°13.37' W81°05.90'

1301 B S4 **FUEL** 100LL, JET A1+ OX 3,4 NOTAM FILE UKF Not insp.

RWY 01-19: H6200X100 (ASPH) S-45, D-60 MIRL 0.9% up N

RWY 01: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 44'. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 36'. Tree.

**AIRPORT REMARKS:** Attended dawn-dusk. Arpt unattended Thanksgiving and Christmas. PAEW east of Rwy 01-19 Mon-Fri SR-SS. Deer on and invof arpt. Rwy 01-19 no line of sight between rwy ends.

MIRL Rwy 01-19 preset low ints; to increase ints and ACTIVATE MALSR Rwy 01; PAPI Rwy 01 and Rwy 19 and REIL Rwy 19 and twy lgts—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 126.625 (336) 696-3788.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**WILKESBORO RCO** 122.4 (RALEIGH RADIO)

**ATLANTA CENTER APP/DEP CON** 125.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**BARRETTS MOUNTAIN (L) VOR/DME** 110.8 BZM Chan 45

N35°52.13' W81°14.43' 024°22.3 NM to fld. 1880/06W.

**WILKI NDB (MHW/LOM)** 209 UKF N36°06.77' W81°05.89'

006°6.6 NM to fld.

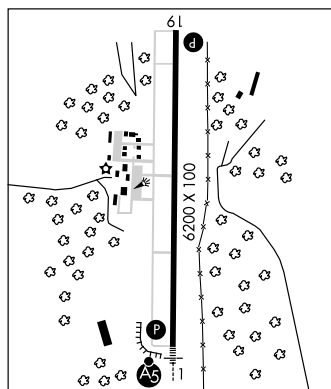
**ILS/DME** 111.55 I-UKF Chan 52(Y) Rwy 01. Class IB. LOM

WILKI NDB.

CINCINNATI

H-9B, 12H, L-25D

IAP





**OAK ISLAND****BRUNSWICK CO** (SUT) 1 NE UTC-5(-4DT) N33°55.85' W78°04.40'

24 B S4 FUEL 100LL, JET A1+ NOTAM FILE SUT

RWY 05-23: H5505X100 (ASPH) S60, D-80 MIRL

RWY 05: PAPI(P2L)—GA 3.0° TCH 39'.

RWY 23: PAPI(P2L)—GA 3.0° TCH 39'. Thld dsplcd 1505'. Road.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 05: TORA-5505 TODA-5505 ASDA-5505 LDA-5505

RWY 23: TORA-5505 TODA-5505 ASDA-5505 LDA-4000

**AIRPORT REMARKS:** Attended 1300-2300Z±. For svc after hrs call

910-278-9896. Fuel avbl 24 hr. self svc with credit card. Deer and birds on and infov arpt. Flight training and sight-seeing ops infov arpt. Banner towing ops on arpt summer months. Skydiving ops. ACTIVATE MIRL Rwy 05-23—CTAF. PAPI Rwy 05 and Rwy 23 on continuously.

**WEATHER DATA SOURCES:** AWOS-3 124.175 (910) 457-1710.**COMMUNICATIONS:** CTAF/UNICOM 123.0

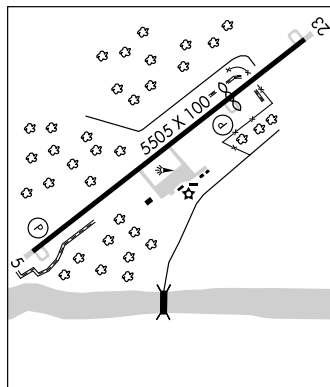
Ⓡ WILMINGTON APP/DEP CON 118.25 (1100-0400Z±)

Ⓡ WASHINGTON ARTCC APP/DEP CON 124.025 (0400-1100Z±)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83'

W78°43.47' 081° 33.1 NM to fld. 20/03W.



CHARLOTTE

H-9C, L-35A

IAP

**OAK RIDGE****DS BUTLER FARM AND AIRFIELD** (N83) 2 NW UTC-5(-4DT) N36°11.71' W80°00.32'

CINCINNATI

950 S2 NOTAM FILE RDU

RWY 01-19: 2000X60 (TURF)

RWY 01: Trees. RWY 19: Trees.

**AIRPORT REMARKS:** Unattended. Owner lives on field. Camping avbl on arpt with PPR. Due to sloping rwys—tkfs Rwy 19 and lgds Rwy 01. 70' trees along both sides of rwy 70' from centerline. Helicopter activity 0.5 NM west of Rwy 01-19 centerline. Rwy 19 wire markers on P-line 180' from thld, wire markers +35' above thld, road approximately 16' above thld.

**COMMUNICATIONS:** CTAF 122.9**OCEAN ISLE BEACH****ODELL WILLIAMSON MUNI** (60J) 1 N UTC-5(-4DT) N33°54.51' W78°26.20'

CHARLOTTE

L-35A

32 FUEL 100LL NOTAM FILE RDU

RWY 06-24: H4000X75 (ASPH) S-12 MIRL

RWY 06: PAPI(P2L)—GA 3.25° TCH 42'. Tree.

RWY 24: PAPI(P2L)—GA 2.45° TCH 35'. Thld dsplcd 200'.

Trees.

**AIRPORT REMARKS:** Attended May-Sep 1300-2200Z±, Oct-Apr Sat-Sun 1400-2200Z± Mon-Fri on call

910-309-2983. 24 hr self svc fuel with credit card. 24 hr pilot lounge. Parallel twy beyond ramp is closed. Rwy 06 has 48' marked transitional powerline +/- 100' from threshold. ACTIVATE MIRL Rwy 06-24—CTAF.

**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83' W78°43.47' 071° 15.5 NM to fld. 20/03W.

**OCRACOE ISLAND** (W95) 1 E UTC-5(-4DT) N35°06.07' W75°57.96'

CHARLOTTE

L-35C

IAP

5 B TPA—805(800) NOTAM FILE RDU

RWY 06-24: H2999X60 (ASPH) S-30

RWY 06: Brush. RWY 24: Brush.

**AIRPORT REMARKS:** Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. Ngt tkf prohibited.

Flocks of seagulls on and near rwy around standing water after heavy rains. Rwy subject to flooding after heavy rain. High speed low level military opr infov arpt. Rwy safety area is loose sand, not suitable for acft. +20 ft sand dune 300 ft NE Rwy 24 thld on centerline. Arpt is within Cape Hatteras National Seashore. Maintain 2000 ft vertical and horizontal distance from seashore beaches. Key code access to pilot lounge.

**COMMUNICATIONS:** CTAF 122.9

CHERRY POINT APP/DEP CON 119.75 (North)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE EWN.

NEW BERN (L) VOR/DME 113.6 EWN Chan 83 N35°04.39' W77°02.70' 096° 53.2 NM to fld. 10/08W.

• • • • • PERIMETER LGTS.

**HELIPAD H1:** H100X100 (CONC) PERIMETER LGTS.**HELIPORT REMARKS:** Helipad for emergency operations only. H1 best approach from NE 10:1 or SW 10:1 ACTIVATE

Helipad perimeter lights only—CTAF.

**ODELL WILLIAMSON MUNI** (See OCEAN ISLE BEACH)**OXFORD****HENDERSON—OXFORD** (HNZ) 4 NE UTC-5(-4DT) N36°21.70' W78°31.75'

526 B S4 FUEL 100LL, JET A1+ NOTAM FILE HNZ

RWY 06-24: H5002X97 (ASPH) S-30 MIRL 0.4% up SW

RWY 06: REIL: PAPI(P2L)—GA 3.3° TCH 26'. Trees.

RWY 24: PAPI(P2L)—GA 3.45° TCH 33'. Trees.

**AIRPORT REMARKS:** Attended 1300-2300Z±, CLOSED Thanksgiving and Christmas days. Arpt phone number is 919-693-5769; for after hours svc call 919-603-0499. Rwy 24 has 30' unmarked p-line 1000' from thld on centerline. Rwy 24 has 60' drop off 325' from thld and 90' left and right from centerline. Rwy 06 200' from thld on both sides of centerline 6' drop off. Trees east of the arpt obscure the rotating bcn. MIRL Rwy 06-24 ops dusk-0400Z±; after 0400Z± ACTIVATE—CTAF. ACTIVATE REIL Rwy 06, PAPI Rwy 06 and Rwy 24—CTAF.

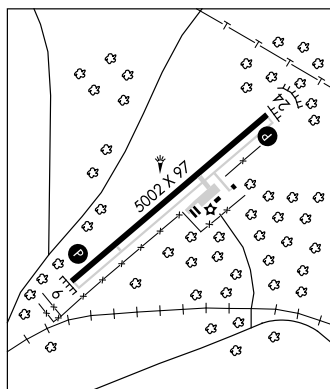
**WEATHER DATA SOURCES:** AWOS-3 118.625 (919) 693-9516.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **RALEIGH APP/DEP CON** 132.35 **GCO** 135.075 (RALEIGH APP)**RADIO AIDS TO NAVIGATION:** NOTAM FILE DCA.**SOUTH BOSTON (L) VORTAC** 110.4 SBV Chan 41 N36°40.50'

W79°00.87' 134° 30.1 NM to fld. 530/05W.

**HUNTSBORO NDB (MHW)** 271 HXO N36°18.03'

W78°37.12' 057° 5.7 NM to fld. NOTAM FILE RDU.

ILS 109.75 I-HNZ Rwy 06. LOC only.

**PENDY** N34°42.98' W78°00.22' NOTAM FILE RDU.

NDB (MHW) 379 ACZ at Henderson Fld.

**CHARLOTTE**

L-35B

**PERSON CO** (See ROXBORO)**PIEDMONT TRIAD INTL** (See GREENSBORO)**PINEHURST/SOUTHERN PINES****MOORE CO** (SOP) 3 N UTC-5(-4DT) N35°14.26' W79°23.33'

455 B S4 FUEL 100LL, JET A OX 3 Class IV, ARFF Index A NOTAM FILE SOP

RWY 05-23: H5503X150 (ASPH-GRVD) S-30 D-58. HIRL 0.4% up SW

RWY 05: MALs. VASI(V4L)—GA 3.0° TCH 48'.

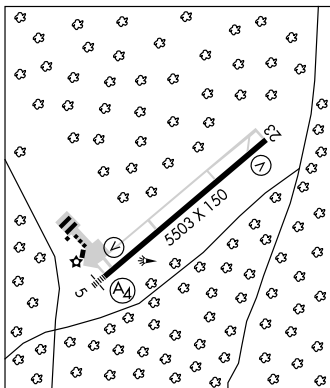
RWY 23: REIL: VASI(V4L)—GA 3.0° TCH 39'. Tree.

**AIRPORT REMARKS:** Attended 1300-0100Z±. Bird activity on and in/ov arpt Apr-Oct. PPR for unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 910-692-3212. 12 hr PPR for jet ops conducted 0400-1100Z±, ctc airport manager 910-692-3212. Noise abatement procedures in effect. Ctc arpt manager 910-692-3212. Avoid overfly of residential area NE of arpt. Multiengine acft departing Rwy 05 or Rwy 23 maintain heading until reaching 1500' MSL before turning. ACTIVATE HIRL Rwy 05-23, REIL Rwy 23 and twy lgs—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 127.575 (910) 692-4287.**COMMUNICATIONS:** CTAF/UNICOM 123.05Ⓡ **FAYETTEVILLE APP/DEP CON** 127.8 **CLNC DEL** 127.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93'

W79°35.28' 085° 9.9 NM to fld. 590/03W.

ILS 111.5 I-SOP Rwy 05. Class IB. Loc unmonitored 0100-1300Z±. Localizer unusable by 30° left of centerline.

**CHARLOTTE**

H-9C, 12H, L-35A, 36F

IAP

**PINK HILL** (4W9) 1 E UTC-5(-4DT) N35°03.04' W77°44.17'

CHARLOTTE

144 B NOTAM FILE RDU

**RWY 01-19:** 2800X85 (TURF) LIRL (NSTD)

**RWY 01:** Thld dsplcd 200'. Trees.

**RWY 19:** Thld dsplcd 200'. Fence.

**AIRPORT REMARKS:** Unattended. Sheep on and invof arpt. No line of sight between rwy ends. Arpt is under several military low level routes. Jet acft cross arpt under 500 feet in excess of 200 knots. +5' grape vineyards 50' left and right of centerline first half of Rwy 19. 65' trees 50' from rwy edges both sides south half of rwy. 40' trees 50' from E edge N half of rwy. Rwy 01-19 marked with yellow cones, dsplcd thlds marked with 3 cones each side rwy. Rwy 01-19 NSTD LIRL; not FAA approved L-800 series. No thld lgts. LIRL Rwy 01-19 OTS indef.

ACTIVATE LIRL Rwy 01-19 and rotating bcn—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**PITT-GREENVILLE** (See GREENVILLE)

**PK AIRPARK** (See RAEFORD)

## PLYMOUTH

**DONALD'S AIR PARK INC** (7NC) 8 SE UTC-5(-4DT) N35°44.01' W76°40.18'

CHARLOTTE

18 S5 FUEL JET A1+ NOTAM FILE RDU

Not insp.

**RWY 04-22:** 4000X100 (TURF) LIRL (NSTD)

**RWY 04:** Trees.

**RWY 22:** Thld dsplcd 800'.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z†, Sun 1800-2200Z†. Heavy agricultural acft ops Mar-Nov. A and P avbl. Rwy 22 has marked pline at thld. Rwy 04-22 NSTD LIRL due to spacing of rwy lgts. ACTIVATE NSTD LIRL Rwy 04-22 call 252-809-9010.

**COMMUNICATIONS:** CTAF 122.9

**PLYMOUTH MUNI** (PMZ) 2 S UTC-5(-4DT) N35°48.65' W76°45.50'

CHARLOTTE

39 B FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9C, 12H, L-35C

**RWY 03-21:** H5500X75 (ASPH) S-25 MIRL

IAP

**RWY 03:** REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

**RWY 21:** REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

**AIRPORT REMARKS:** Attended 1300-2200Z†. For fuel after hrs call 252-793-9801. Deer activity invof arpt. Arpt located 4.3 NM W of military restricted area. Safety problem due to fast military acft crossing arpt below 3000' MSL enroute to restricted area. Crossings are unannounced. There are 17 based acft located adjacent to the arpt with twy access to ramp. Rwy 21 PAPI unusable byd 8° right of centerline. ACTIVATE MIRL Rwy 03-21, REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and PAPI Rwy 21—CTAF.

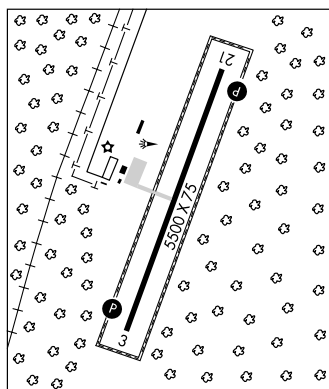
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**WASHINGTON CENTER APP/DEP CON** 135.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**COFIELD (L) VORTAC** 114.6 CVI Chan 93 N36°22.37'

W76°52.29' 180° 34.1 NM to fld. 70/09W.



**POPE AFB** (POB)(KPOB) AF 12 NW UTC-5(-4DT) N35°10.25' W79°00.87'

**CHARLOTTE**

217 B TPA—See Remarks Class I, ARFF Index Ltd. NOTAM FILE POB Not insp.

**H-9C, 12H, L-36F**

**RWY 05-23:** H7501X150 (PEM-GRVD) PCN 58 F/B/W/T HIRL 0.4% up SW

**DIAP, AD**

**RWY 05:** REIL. PAPI.

**RWY 23:** ALSF1. PAPI. Rgt tfc.

**RWY 049-229:** H3000X60 (ASPH) PCN 27 F/A/W/T LIRL

**RWY 049:** Rgt tfc.

**MILITARY SERVICE:** LGT HIRL located 16' from rwy edge. **JASU** (A/M32A-86) 1(MA-1A) **FUEL J8**

**FLUID SP** LPOX LOX **OIL** O-128—In can only, -133-148.

**MILITARY REMARKS:** See FLIP AP/1 Supplementary Arpt Remark. **RSTD** Phase II BASH 1 Sep-30 Nov due to increased migratory bird activity. Peak activity occurs 1 hr of SR and SS. Circle apch to Rwy 05 not authorized for formation during IMC. 24 hr PPR ctc AMOPS DSN 424-6508/09/10. All inbound acft with VIP ctc Comd Post 30 min out. Ctc Pope AMOPS with 3 hrs notice for CSTMS and AG. PPR except Distinguished Visitor acft DSN 424-6508/09/10. PPR for AMC/explosive loaded acft DSN 424-7388, during normal duty hr, 24 hr prior notice required. Category E apch minimum unavbl due R5311 located 2.5 NM dep end Rwy 23. Twy leading to Golden Knights Ramp clsd to USAF C130 and larger acft due to twy width less than 75'. AMC/AFRC acft opr restricted during Bird Watch Condition Moderate (tkf or ldg permission only when dep and arr route avoid identified bird activity. No local IFR/VFR tfc pat activity) and Severe (tkf and ldg prohibited without OG/CC approval), ctc AMOPS for current Bird Watch Condition code. Expect full stop ldg during intense training periods. Parking spot P-13 clsd except for contingency opr. **CAUTION** Dense air tfc all quad, all alt. ILS glide slope antenna 30' high, 1111' from apch end and 400' left of centerline Rwy 23. Frequent Low-Level Wind Shear sfc—2000', 0800-1300Z+. Rwy 23 dep and Rwy 05 arr, avoid R5311, 2.5 NM west of Pope. Ctc Pope Twr for turns thru Sector IV. Twr 417' located 5780' bearing 205° from dep end Rwy 23/apch end Rwy 05. Hill 313 located 1297' bearing 170° from dep end Rwy 23/apch end Rwy 05. Twr 430' located 6878' bearing 220° from dep end Rwy 23/apch end Rwy 05. Acft should exercise extreme caution when taxiing on the Green and Yellow Ramps due to wing tip clnc. Uncontrolled vehicles on twy and ramps. Afld lgtg intermittent between SS and SR due to local ngt vision device training, non-participating acft ctc control twr incr lgtg. **TFC PAT** TPA—Overhead 2000(1783), Rwy 23 enter 3 NM initial, rgt break. No overhead Rwy 05. Portion of overhead not visible from twr. Rectangular 1500(1283). Rwy 05 left tfc. Dep maintain 1500' or blo until dep end of rwy. **CSTMS/AG/IMG** CSTMS, AG avbl, 3 hr prior notice rqr. **MISC** AMOPS DSN 424-6508/09/10, Afld mgr DSN 424-4546/6508, C910-394-6508/4546, fax extension 6516/6520. All acft opr on AMC mission, include JA/ATT will coordination rqr/park with 43 AW/OSO DSN 424-7388 fax extension 7380. All inbound acft opr on AMC mission and all acft requiring IMT packages ctc Pope Comd Post. First 1000' Rwy 23 and first 300' Rwy 05 are concrete. Mid 6200' asphalt. 1000' keeled overrun, either end, may be used to begin tkf and for ldg rollout. Ctc ctl twr with intention to back taxi. When back taxiing, turning radius is located at end of sfc. See US Terminal Low IAPs, Airport Diagram. Engine runs will normally be conducted on Twy A and Twy M run-up areas. Romeo row will not be used for engine runs above idle speed. 60 day notice required for utilization of Pope AFB ramps for exercises. Ctc Pope AFB Enroute Ops, DSN 424-7388 for coordination and scheduling. Rwy 05-23 grooved. All inbound acft ctc twr on UHF. Rwy distance marker not avbl east side of rwy. Standard USAF RSRs applied except C-130 5000' during daytime. Request for concurrent servicing should be made to Pope Comd Post and approval is dependent upon mission need, station workload, and Crash/Fire/Rescue avbl. All acft carrying explosive cargo are rqr to pass the explosive class and the net explosive wt (NEW) to Pope Comd Post at inbound call. Inbound/outbound acft requiring IMT packages, ctc Pope Comd Post. Assault Strip panels are all international orange in color. All acft with non-aircrew passenger, ctc ATOC DSN 424-7303 upon arr and prior to dep. All acft rqr CSTMS and carrying personnel to include crew members that are not US mil (US mil defined as active duty, reserves or guard on active duty) must ctc Pope Comd Post at DSN 424-9000 or C(910) 394-9000 no later than five hrs prior to arrival to assure non-US cstms agent is in place upon arrival and excessive delays are avoided. This action is rqr despite prearrangements made with cstms officials. No COMSEC material avbl. Tran aircrews should plan to arrive with appropriate amount of COMSEC to complete entire mission. Storage avbl at airfield mgt up to and including Secret. All Tran aircrews shall store Top Secret material with 43 OSS/IN during duty hours. After normal duty hours, coordinate with Wing Command Post for proper storage of Top Secret material. Primary wx sensors automated. During periods of back-up/manual prevailing visibility may not be representative of entire afld due to obstacle from observation point. Observation point obstacle 330°-090°.

**COMMUNICATIONS:** D-ATIS 132.3 353.725 **PTD** 372.2

**(R) FAYETTEVILLE APP/DEP CON** 125.175 397.85 (271°-090°) 133.0 295.0 (091°-270°)

**TOWER** 135.025 291.1 236.6X **GND CON** 124.55 275.8 **CLNC DEL** 275.8

**POPE COMD POST** 134.1X 257.1 381.3 **PMSV METRO** 344.6 Automated AN/FMQ-19 in use. Opr Mon-Thu 1000-0300Z+, Fri 1000-2200Z+ or end of local flying. Wx briefing DSN 424-6543/44. Full svc avbl 26 ows Barksdale AFB DSN 781-4775, C318-456-4775.

**CONTINUED ON NEXT PAGE**

## CONTINUED FROM PRECEDING PAGE

AIRSPACE: CLASS C svc etc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11' W79°01.18' at fld. 240/7W. No NOTAM MP Thu 1300–1600Z†.

TACAN azimuth unusable:

byd 30 NM blo 4,000'

136°–151°

186°–191°

331°–339° byd 17 NM

340°–358° byd 17 NM blo 4,000'

NDB (HW) 338 POB N35°13.61' W78°57.26' 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z†.

ILS 110.9 I-POB Rwy 23. No NOTAM MP localizer Mon 1300–1600Z†, glide slope Tue 1300–1600Z†.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M-PPN Rwy 23. No NOTAM MP Fri 1300–1600Z†. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

## POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC–5(–4DT) N34°58.93' W77°41.90'

CHARLOTTE

115 NOTAM FILE RDU

RWY 13–31: 1850X75 (TURF)

RWY 13: Trees. RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. Rwy 13 +6' bushes 10' from thld on centerline. Rwy 13–31 marked with yellow cones. Arpt is under several military VR routes. Jet acft cross arpt under 500' in excess of 200 knots.

COMMUNICATIONS: CTAF 122.9

## RAEFORD

PK AIRPARK (5W4) 3 NE UTC–5(–4DT) N35°01.19' W79°11.46'

CHARLOTTE

304 B FUEL 100LL, JET A+ NOTAM FILE RDU

L–35A, 36F

RWY 04–22: H3402X60 (ASPH) S–30 MIRL 0.4% up NE

RWY 04: Trees. RWY 22: Trees. Rgt tfc.

IAP

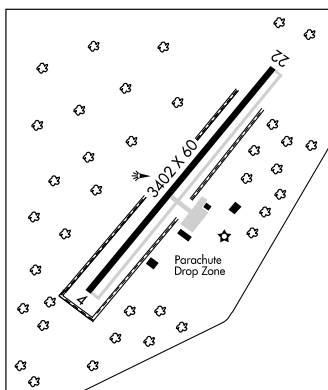
AIRPORT REMARKS: Attended 1300Z†–dusk. CAUTION —Low flying military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE from rwy.) Contact FSS prior to landing.

COMMUNICATIONS: CTAF/UNICOM 123.0

® FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 282° 15.7 NM to fld. 179/04W.



## RALEIGH

TRIPLE W (5W5) 11 SW UTC–5(–4DT) N35°37.22' W78°42.02'

CHARLOTTE

244 B S4 NOTAM FILE RDU

L–35B, 36F

RWY 16–34: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826' MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thld lgts 150' from thld, Rwy 34 thld lgts 460' from thld. ACTIVATE LIRL—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35' W78°47.00' 169° 15.6 NM to fld. 429/04W.

## CONTINUED FROM PRECEDING PAGE

AIRSPACE: CLASS C svc etc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11' W79°01.18' at fld. 240/7W. No NOTAM MP Thu 1300–1600Z†.

TACAN azimuth unusable:

byd 30 NM blo 4,000'

136°–151°

186°–191°

331°–339° byd 17 NM

340°–358° byd 17 NM blo 4,000'

NDB (HW) 338 POB N35°13.61' W78°57.26' 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z†.

ILS 110.9 I-POB Rwy 23. No NOTAM MP localizer Mon 1300–1600Z†, glide slope Tue 1300–1600Z†.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M-PPN Rwy 23. No NOTAM MP Fri 1300–1600Z†. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

## POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC–5(–4DT) N34°58.93' W77°41.90'

CHARLOTTE

115 NOTAM FILE RDU

RWY 13–31: 1850X75 (TURF)

RWY 13: Trees. RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. Rwy 13 +6' bushes 10' from thld on centerline. Rwy 13–31 marked with yellow cones. Arpt is under several military VR routes. Jet acft cross arpt under 500' in excess of 200 knots.

COMMUNICATIONS: CTAF 122.9

## RAEFORD

PK AIRPARK (5W4) 3 NE UTC–5(–4DT) N35°01.19' W79°11.46'

CHARLOTTE

304 B FUEL 100LL, JET A+ NOTAM FILE RDU

L–35A, 36F

RWY 04–22: H3402X60 (ASPH) S–30 MIRL 0.4% up NE

RWY 04: Trees. RWY 22: Trees. Rgt tfc.

IAP

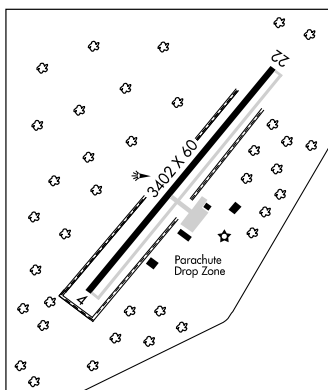
AIRPORT REMARKS: Attended 1300Z†–dusk. CAUTION —Low flying military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE from rwy.) Contact FSS prior to landing.

COMMUNICATIONS: CTAF/UNICOM 123.0

® FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 282° 15.7 NM to fld. 179/04W.



## RALEIGH

TRIPLE W (5W5) 11 SW UTC–5(–4DT) N35°37.22' W78°42.02'

CHARLOTTE

244 B S4 NOTAM FILE RDU

L–35B, 36F

RWY 16–34: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826' MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thld lgts 150' from thld, Rwy 34 thld lgts 460' from thld. ACTIVATE LIRL—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35' W78°47.00' 169° 15.6 NM to fld. 429/04W.

**RALEIGH-DURHAM INTL** (RDU) 9 NW UTC-5(-4DT) N35°52.66' W78°47.25'

435 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index D

**CHARLOTTE**

H-9C, 12H, L-36F

IAP, AD

NOTAM FILE RDU

**Rwy 05L-23R:** H10000X150 (CONC-WC) S-30, D-190, 2S-175, 2D-355, 2D/2D2-750 HIRL CL**Rwy 05L:** MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.6% up.**Rwy 23R:** ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 68'. Rgt tfc.**Rwy 05R-23L:** H7500X150 (ASPH-GRVD) S-30, D-176, 2S-175, 2D-335, 2D/2D2-750 HIRL CL 0.4% up NE**Rwy 05R:** MALSR. PAPI(P4L)—GA 3.0° TCH 55'. Rgt tfc.**Rwy 23L:** MALSR. TDZL VASI(V4L)—GA 3.0° TCH 55'.**Rwy 14-32:** H3570X100 (ASPH) S-12, MIRL**Rwy 32:** REIL. VASI(V4L)—GA 3.5° TCH 29'. Trees.**RUNWAY DECLARED DISTANCE INFORMATION****Rwy 05L:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**Rwy 05R:** TORA-7500 TODA-7500 ASDA-7500 LDA-7500**Rwy 23L:** TORA-7500 TODA-7500 ASDA-7500 LDA-7500**Rwy 23R:** TORA-10000 TODA-10000 ASDA-10000 LDA-10000**AIRPORT REMARKS:** Attended continuously. Arpt CLOSED to airships.

Four engine acft with wingspan over 171' and group V must use

Rwy 05L-23R. Rwy 05L-23R southwest 3000' ungrooved and

northeast 3000' ungrooved. Crane 75' AGL .76 NM from AER

05R. PPR for all military acft and unscheduled charter flights with 30 or more passengers. Military practice

approaches require approval 24 hours prior notice required. Contact arpt ops. Rwy 05R touchdown and rollout

rwy visual range avbl. Rwy 23L touchdown and rollout rwy visual range avbl. Touchdown rwy visual range and rwy

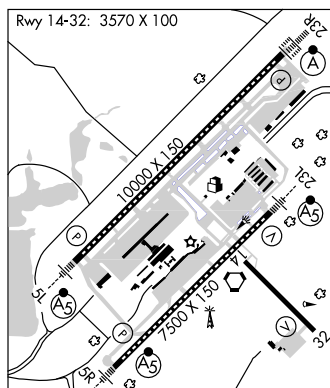
visibility value available Rwy 23L. Twy F between Twy T1 and T4 clsd to acft with wingspan greater than 135'. No

jet engine maintenance runs between 0500-1100Z. National Guard 24 hr PPR for jet acft and transit military

acft—919-840-2111. No approval required for pushback at terminal gates unless acft reqs use of twy. Ctc ATC

prior to pushing onto twy. Twy E behind South Cargo 4 and Twy J behind corporate hangars not visible from twr.

Visibility of bcn shielded to the North. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (919) 840-0816. LLWAS. TDWR.**COMMUNICATIONS:** D-ATIS 123.8 UNICOM 122.95**RALEIGH FSS** (RDU) on arpt.**RCO** 122.65 122.45 122.2 (RALEIGH RADIO)⑦ **APP CON** 128.3 (230°-024°) 124.95 (025°-229°)⑦ **DEP CON** 132.35 (230°-024°) 125.3 (025°-229°)**TOWER** 119.3 (West) Rwy 05L-23R 127.45 (East) Rwy 05R-23L and Rwy 14-32**GND CON** 121.9 (East) Rwy 05R-23L and Rwy 14-32 121.7 (West) Rwy 05L-23R **CLNC DEL** 120.1**AIRSPACE:** CLASS C svc continuous ctc **APP CON****RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.(H) **VORTACW** 117.2 RDU Chan 119 N35°52.35' W78°47.00' at fld. 429/04W.**LEEVEY NDB** (HW/LOM) 350 LE N35°55.63' W78°43.32' 234° 4.4 NM to fld.**GREON NDB** (LOM) 382 RD N35°47.82' W78°52.98' 051° 6.7 NM to fld. Unmonitored.**ILS/DME** 109.1 I-GKK Chan 28 Rwy 05L. Class IA.**ILS** 109.5 I-RDU Rwy 05R. Class IE. LOM **GREON NDB**. LOM unmonitored.**ILS** 108.5 I-LEI Rwy 23L. Class IA. LOM **LEEVEY NDB**. LOC unusable within 2.0 NM from thld.**ILS/DME** 111.7 I-DMP Chan 54 Rwy 23R. Class IIE. Inner Marker unmonitored. LOC unusable byd 20' right of course.**RALEIGH EXEC JETPORT AT SANFORD-LEE CO** (See Sanford)**RAPIDS** N36°26.46' W77°42.50' NOTAM FILE RZZ.**NDB** (MHW) 407 RZZ at Halifax Co.**WASHINGTON**

L-35C, 36F

**REENO** N36°04.26' W80°10.01' NOTAM FILE INT.**NDB** (LOM) 317 IN 332° 4.6 NM to Smith-Reynolds. (Unmonitored when tower closed).**CINCINNATI**

L-25D, 36F

## REIDSVILLE

**ROCKINGHAM CO NC SHILOH** (SIF) 8 NW UTC-5(-4DT) N36°26.23' W79°51.06'

CINCINNATI

694 B S4 FUEL 100LL, JET A1+ OX 2,3 NOTAM FILE SIF

H-9B, 12H, L-26J, 36F

RWY 13-31: H5199X100 (ASPH) S-12.5, D-24 MIRL 0.5% up NW

IAP

RWY 13: PAPI(P2L)—GA 4.0° TCH 42'. Thld dsplcd 200'. Ground.

RWY 31: REIL. PAPI(P2L)—GA 4.0° TCH 41'. Ground.

**AIRPORT REMARKS:** Attended 1300-2300Z±. Arpt unattended

Christmas, New Years and Thanksgiving Day. Fuel avbl 24 hrs self

svc. Deer on and invof arpt. 120 ft trees 1800 ft from Rwy 13

thld. ACTIVATE MIRL Rwy 13-31; PAPI Rwy 31 and REIL Rwy

31—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.775 (336) 573-3677.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® GREENSBORO APP/DEP CON 124.35

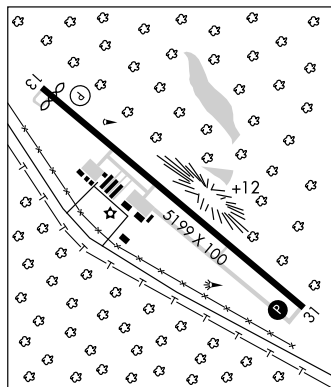
**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 018° 24.2 NM to fld. 879/03W. HIWAS.

SLAMMER NDB (MHW) 423 SIF N36°22.90' W79°45.77' 315°

5.4 NM to fld. NOTAM FILE RDU.



**WARF** (6A5) 3 SW UTC-5(-4DT) N36°19.01' W79°42.49'

CINCINNATI

820 NOTAM FILE RDU

RWY 17-35: 2550X150 (CONC-TURF) S-8 LIRL (NSTD)

RWY 17: Tree. RWY 35: Trees.

**AIRPORT REMARKS:** Unattended. Deer on and invof arpt. For LIRL Rwy 17-35 call 336-349-2195. Rwy 17-35 NSTD LIRL, no thld lights on north end. Only south 2375' of rwy lighted. All edge lights OTS indef. Rwy 17-35 concrete portion 900X18 at North end. Rwy 35 has uphill grade. Rwy 35 has more than 50' dropoff/downslope 35' from thld both sides.

**COMMUNICATIONS:** CTAF 122.9

**RICHMOND CO** (See ROCKINGHAM)

## ROANOKE RAPIDS

**HALIFAX-NORTHAMPTON RGNL** (IXA) 8 S UTC-5(-4DT) N36°19.79' W77°38.11'

WASHINGTON

145 B FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9C, 12H, L-35C, 36G

RWY 02-20: H5500X100 (ASPH) S-45, D-65 HIRL

IAP

RWY 02: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 20: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z±, Sun

1700-2200Z±. 24 hrs self svc with credit card. For svc after hrs

contact 252-673-2793. CLOSED New Years Day, Easter, Jul 4th,

Thanksgiving, Christmas. Birds on and invof arpt. PAEW on and

invof arpt for parallel twy construction. 24 hrs access to pilots

lounge, etc 252-673-2793 for code. ACTIVATE HIRL Rwy 02-20

and PAPI Rwy 02 and Rwy 20, REIL Rwy 02 and Rwy 20—CTAF.

**WEATHER DATA SOURCES:** ASOS 119.975 (252)583-3446.

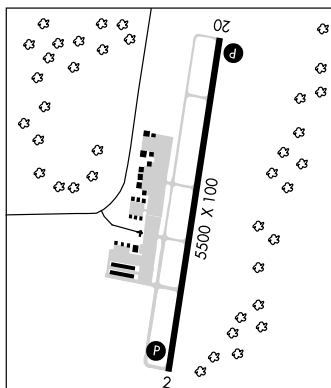
**COMMUNICATIONS:** CTAF/UNICOM 123.075

WASHINGTON CENTER APP/DEP CON 132.02

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 014° 21.4 NM to fld. 70/50W.



**ROBESON** N34°36.81' W79°03.59' NOTAM FILE LBT.

CHARLOTTE

NDB (MHW) 359 RSY at Lumberton Muni. NDB unmonitored 0100-1300Z± Mon-Fri, 0000-1500Z± L-24J, 35A, 36E

Fri-Sat, 0000-1300Z± Sun-Mon.



**ROCKINGHAM****RICHMOND CO**

(RCZ) 3 S UTC-5(-4DT) N34°53.48' W79°45.58'

358 B FUEL 100LL, A1+ NOTAM FILE RDU

RWY 14-32: H5000X100 (ASPH) S-30 MIRL

RWY 14: PAPI(P2L)-GA 3.15° TCH 34. Road.

RWY 32: REIL. PAPI(P2L)-GA 3.15° TCH 26'. Thld dsplcd 200'.

Railroad.

RWY 04-22: 3009X500 (TURF)

RWY 04: Trees.

RWY 22: Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1230-2230Z†. For arpt attendant ngts and Sun call 910-895-6691. 100LL 24hr self-svc with credit card. Rwy 04-22 CLOSED to all turbine engine acft. Rwy 14 inadequate safety area 60 ft drop off 125 ft from thld both sides. ACTIVATE MIRL Rwy 14-32 and PAPI Rws 14 and 32 and REIL Rwy 32-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.775 (910) 997-4093.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ FAYETTEVILLE APP/DEP CON 127.8

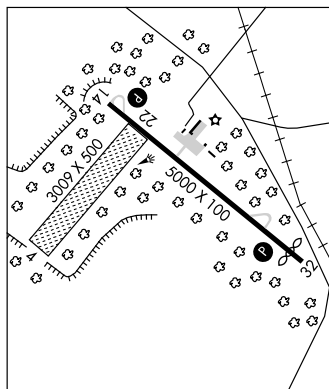
**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93'

W79°35.28' 207° 21.2 NM to fld. 590/03W.

ROSCOE NDB (MHW) 375 RCZ N34°51.16' W79°41.62' 312°

4.0 NM to fld.

**ROCKINGHAM CO HELIPORT**

(See EDEN)

**ROCKINGHAM CO NC SHILOH**

(See REIDSVILLE)

**ROCKY MOUNT-WILSON RGNL**

(RWI) 7 SW UTC-5(-4DT) N35°51.38' W77°53.52'

159 B S4 FUEL 100LL, JET A OX 1 Class IV, ARFF Index A

NOTAM FILE RWI

CHARLOTTE H-9C, 12H, L-35B, 36G

RWY 04-22: H7100X150 (ASPH-GRVD) S-62, D-75, 2S-95, 2D-140

IAP

RWY 04: MALSR. PAPI(P4L)-GA 3.0° TCH 56'.

RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 45'. Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04: TORA-7100 TODA-7100 ASDA-7100 LDA-7100

RWY 22: TORA-7100 TODA-7100 ASDA-6900 LDA-6900

**AIRPORT REMARKS:** Attended Mon-Fri 1100-0300Z†, Sat-Sun 1200-0300Z†. CLOSED to air carrier opr with more than 30 passenger seats except with 24 hr PPR call arpt manager 252-446-7057. ACTIVATE HIRL Rwy 04-22; MALSR Rwy 04; and REIL Rwy 22-CTAF.

**WEATHER DATA SOURCES:** ASOS 118.875 (252) 446-0732.**COMMUNICATIONS:** CTAF/UNICOM 123.05

RCO 122.2 (RALEIGH RADIO) RCO 122.3 (RALEIGH RADIO)

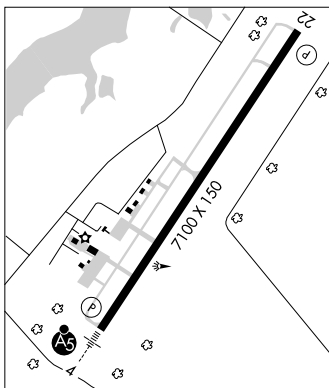
Ⓡ WASHINGTON CENTER APP/DEP CON 118.475

**AIRSPACE:** CLASS E svc 1300-2300Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 237° 11.7 NM to fld. 70/05W.

ILS 108.3 I-RWI Rwy 04 Class I.A. ILS unmonitored.

**COMM/NAV/WEATHER REMARKS:** Cinc del provided by RALEIGH AFSS on frequency 122.3.**ROSCOE** N34°51.16' W79°41.62' NOTAM FILE RDU.

NDB (MHW) 375 RCZ 312° 4.0 NM to Richmond Co.

CHARLOTTE

L-25E, 35A, 36E

**ROVDY** N35°43.99' W80°29.37' NOTAM FILE RUQ.

NDB (MHW/LOM) 275 RU 202° 5.4 NM to Rowan Co.

CHARLOTTE

L-25D, 36F

**ROWAN CO**

(See SALISBURY)

## ROXBORO

**PERSON CO** (TDF) 6 S UTC-5(-4DT) N36°17.08' W78°59.08'

609 B S2 FUEL 100LL, JET A1+ NOTAM FILE TDF

RWY 06-24: H6005X100 (ASPH) S-30 MIRL

RWY 06: REIL. PAPI (P2L)—GA 3.25° TCH 43'. Thld dsplcd 304'. Trees.

RWY 24: REIL. PAPI (P2L)—GA 3.0° TCH 40'. Trees.

**AIRPORT REMARKS:** Attended 1300-2300Z†. For svc after hrs call 336-504-3441 or 919-423-3554. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 06-24, REIL Rwy 06 and Rwy 24, and PAPI Rwy 06 and Rwy 24—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 126.725 (336) 364-1651.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ RALEIGH APP/DEP CON 132.35

GCO 119.7 (RALEIGH CLNC)

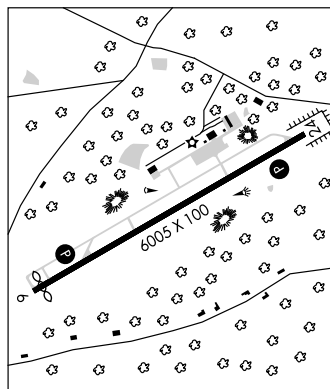
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DCA.

**SOUTH BOSTON (L) VORTAC** 110.4 SBV Chan 41 N36°40.50' W79°00.87' 181° 23.4 NM to fld. 530/05W.

**NDB (MHW/LOM)** 220 HUR N36°14.00' W79°03.95' 060° 5.0 NM to fld. NOTAM FILE TDF.

**ILS/DME** 108.7 I-TDF Chan 24 Rwy 06. Class IB. LOM PERSON NDB. LOM unmonitored. ILS/DME unmonitored.

**COMM/NAV/WEATHER REMARKS:** AWOS-3 visibility information unreliable.



WASHINGTON

H-9C, 12H, L-26J, 36G  
IAP

**RUTHERFORD CO-MARCHMAN FLD** (See RUTHERFORDTON)

## RUTHERFORDTON

**RUTHERFORD CO-MARCHMAN FLD** (FQD) 3 N UTC-5(-4DT) N35°25.69' W81°56.11'

1077 B S4 FUEL 100LL, JET A1+ OX 1, 3 NOTAM FILE FQD

RWY 01-19: H5000X100 (ASPH) S-12.5 MIRL 0.4% up N

RWY 01: REIL. PAPI(P2L)—GA 3.0° TCH 29'. Trees.

RWY 19: PAPI (P2L)—GA 3.5° TCH 20'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2300Z†, Sat 1400-2200Z†, and Sun 1800-2200Z†. For svc after hrs call 828-287-0800. Deer invof arpt. 100' dropoff 230' from thld Rwy 01. ACTIVATE MIRL Rwy 01-19 and REIL Rwy 01—CTAF after 0300Z†. PAPI Rwy 01 and Rwy 19 on 24 hrs.

**WEATHER DATA SOURCES:** AWOS-3 118.275 (828) 287-6498.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ GREER APP/DEP CON 119.4 (1100-0445Z†)

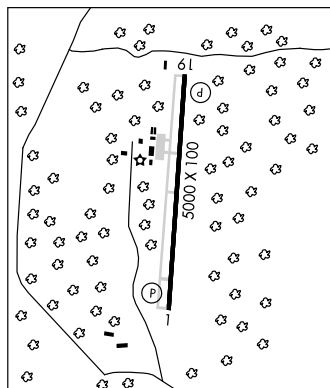
ATLANTA CENTER APP/DEP CON 119.575 (0445-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE AND.

**SPARTANBURG (H) VORTAC** 115.7 SPA Chan 104 N35°02.02' W81°55.62' 001° 23.6 NM to fld. 910/02W.

**NDB (MHW)** 344 RFE N35°20.94' W81°57.17' 015° 4.8 NM to fld. NOTAM FILE FQD.

**ILS/DME** 109.55 I-FQD Chan 32(Y) Rwy 01.



CHARLOTTE

H-9B, 12G, L-25C  
IAP

**SALISBURY****ROWAN CO**

(RUQ) 3 SW UTC-5(-4DT) N35°38.75' W80°31.22'

772 B S4 FUEL 100LL, JET A1+ OX 4 NOTAM FILE RUQ

RWY 02-20: H5501X100 (ASPH) S-45, D-55 MIRL

RWY 02: REIL. PAPI(P2L)—GA 3.0° TCH 38'. Trees.

RWY 20: MALSR. REIL. PAPI(P2L)—GA 3.0° TCH 39'.

**AIRPORT REMARKS:** Attended 1300-0100Z±. 24 hr self-service avbl for 100LL with credit card. Tran mil fuel. Lgtd park, ramp clsd to all tfc except military acft with PPR. Operational Mon-Fri 1200-2030Z± exc holidays. MIRL Rwy 02-20 preset low ints; to increase ints and ACTIVATE REIL Rwy 02 and Rwy 20; PAPI Rwy 02 and Rwy 20 and MALSR Rwy 20—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.175 (704) 637-6197.**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHARLOTTE APP/DEP CON 128.32

CHARLOTTE CLNC DEL 127.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT.

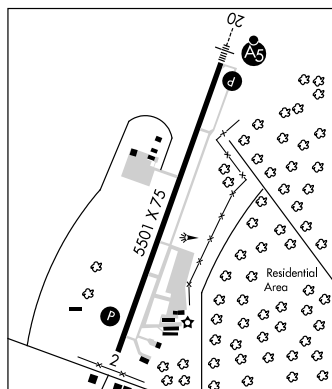
CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42'

W80°57.11' 043° 34.5 NM to fld. 733/05W. HIWAS.

ROVDY NDB (MHW/LOM) 275 RU N35°43.99' W80°29.37' 202°  
5.4 NM to fld. NOTAM FILE RUQ.

ILS 109.95 I-RUQ Rwy 20. Class IB. LOM ROVDY NDB.

GS unusable byd 4° right of course and byd 7° left of course.



CHARLOTTE

H-9B, 12H, L-25D, 36E  
IAP**SANDHILLS**

N35°12.93' W79°35.28' NOTAM FILE RDU.

(L) VORTAC 111.8 SDZ Chan 55 207° 21.2 NM to Richmond Co. 590/03W.

CHARLOTTE

H-9C, 12H, L-25E, 35A, 36F

VOR portion unusable:

026°-074° byd 10 NM blo 5,000';

075°-143°

144°-154° blo 60'.

144°-154° byd 23 NM

155°-179° blo 5,000'.

RCO 122.1R 111.8T (RALEIGH RADIO)

180°-264° blo 8000'

301°-019° byd 10 NM blo 10,000'

**SANFORD****RALEIGH EXEC JETPORT AT SANFORD-LEE CO**

(TTA) 7 NE UTC-5(-4DT)

N35°35.03' W79°06.05'

246 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE TTA

RWY 03-21: H6500X100 (ASPH) S-30, D-80 HIRL 0.3% up SW

RWY 03: MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

**AIRPORT REMARKS:** Attended 1200-0000Z±. For svc after hrs call 919-770-5945. ACTIVATE HIRL Rwy 03-21, MALSR Rwy 03 and REIL Rwy 21—CTAF. PAPI Rwy 03 and Rwy 21 on continuously.

**WEATHER DATA SOURCES:** AWOS-3 120.625 (919) 708-5382.**COMMUNICATIONS:** CTAF/UNICOM 123.075

® RALEIGH APP/DEP CON 125.3

GCO 135.075 (RALEIGH CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 050° 32.5 NM to fld. 590/03W.

LEECO NDB (MHW/LOM) 406 TT N35°29.84' W79°08.40' 028° 5.5 NM to fld.

ILS/DME 110.75 I-TTA Chan 44(Y) Rwy 03. LOM LEECO NDB.

CHARLOTTE

H-9C, 12H, L-36F  
IAP

**SEYMOUR JOHNSON AFB** (GSB)(KGSB) AF 3 SE UTC-5(-4DT) N35°20.36' W77°57.64 **CHARLOTTE**  
 109 B TPA—See Remarks Class I, ARFF Index A NOTAM FILE RDU Not insp. **H-9C, 12H, L-35B, 36F**  
**RWY 08-26:** H11760X300 (CONC-GRVD) PCN 56 R/C/W/T HIRL **DIAP, AD**  
**RWY 08:** ALSF1. PAPI(P4L). Rgt tfc. **RWY 26:** ALSF1. PAPI(P4L). Rgt tfc. 0.3% down

**RUNWAY DECLARED DISTANCE INFORMATION**  
**RWY 08:** TORA-11760 TODA-11760 ASDA-11760  
**RWY 26:** TORA-11760 TODA-11760 ASDA-11760

**ARRESTING GEAR/SYSTEM**  
**RWY 08** ←HOOK BAK-12A(B) (36' OVRN) HOOK BAK-12B(B) (1492')  
 HOOK BAK-12B(B) (1492') HOOK BAK-12A(B) (52' OVRN) →**RWY 26**

**MILITARY SERVICE:** LGT Rwy 08-26 gated thld lgt. **A-GEAR** BAK-12B(B) always in place. The potential for tail hook skip exists, due conc inlay meeting asphalt pavement at the Rwy 26 underrun/Rwy 08 ovrn BAK 12 barrier. **JASU 8(M32A-60A/B) 5(M32A-86) 1(MC-11) 1(MC-1A) FUEL J8 FLUID SP PRESAIR LPOX LOX**  
 24 hr prior notice rqr. **OIL O-148 SOAP**

**TRAN ALERT** Avbl Mon-Fri 1200-0400Z†, other times standby. Expect 1-2 hr svc/refuel delays weekend, holiday, peak periods and ltd maintenance. Ltd fleet svc avbl for military acft only. 50 gallon maximum per load for lavatory.

**MILITARY REMARKS:** Opr 1200-0430Z†. See FLIP AP/1 Supplementary Arpt Info. **RSTD** Transient acft expect full stop ldg during local flying period. PPR ctc Base OPS 24 hr PN DSN 722-4097, C919-722-4097, fax 4100. PPR all acft incl Distinguished Visitors, hazardous cargo and air evacuation regardless of affiliation for notification and coordination purposes. Transient acft ctc Base OPS via PTD prior arr to confirm svc rqr. Issued PPR valid 1 hr prior or after ETA, early/late arr/drp must be re-coordinated. 72 hr prior notice rqr for all acft carrying hot cargo. Twy F no acft larger than C130. Twy H clsd. C5, B2 and VC26 acft will experience degraded firefighting capability-coordination 1 week prior to arr for PPR and svc. Twy G ltd to KC135 323,000 lbs or less and F15 65,000 lbs or less. Twy B, G, and J avbl to fighter acft only when arm/de-arm in use. **CAUTION** Uncontrolled vehicle tfc on twy and apron. Bird and deer haz. Peak activity usually begins 1 hr prior SR and SS. Waste water treatment pond facility off W end of rwy attracts significant number of waterfowl. Trees 3000' E of apch Rwy 26. Unlgt'd obst (trees) E and W apch ends Rwy 08-26 pent 50:1. Afd grass cutting Mar-Nov, expect increased bird activity invof mowers. Reduce jet blast clnc between parking rows on F-15 ramp. Minimum jet blast clnc provided for large acft on transient ramp. Non-std mark-10' blue stripe on S side of Twy A identifies sub-sfc fire hydrant location. Mandatory and information signs for Twy C, Twy D, and Twy F located right side of twy. **TFC PAT** TPA Rectangular 1300 (1191), Overhead 1800 (1791), Lgt acft 1000 (991). **MISC** Reported prevailing visibility may not represent touchdown visibility due obstruction from obsn pt; Obsn pt is obstructed from 090°-110° and 250°-010°. ATC will enhance sfc obsn when twr visibility and/or surface visibility is less than 4 SM. Reported visibility will be the low of either twr or sfc visibility. ATC will assist in cooperative wx watch by notifying Wx of previously unreported wx cond. Runway Condition Reading not reported by Seymour Johnson base wx. Current Runway Condition Reading and Runway Surface Covering info avbl via PTD and ATIS. Heavy acft should exercise extreme caution when taxiing on C135 ramp due to minimum wingtip clnc. All inbound acft with VIP ctc consolidated Comd Post 60 NM out. Heavy equipment land long over BAK-12s, if unable ctc Base OPS 30 min prior. No COMSEC material avbl. Transient aircrews should plan to arr with appropriate amount of COMSEC to complete entire mission. No COMSEC storage avbl at Base OPS. All transient aircrews shall store top secret material at Wing Comd Post. ACC reduced same rwy separation for ACC acft only. Rwy 08-26: first 1000x300 conc each end. Center 75' con with 112' asphalt edges, grooved.

**COMMUNICATIONS:** SFA ATIS 317.625 (1200-0430Z†) PTD 372.2

Ⓡ **APP CON** 119.7 273.6 (111°-257°) 123.7 290.9 (258°-110°) (1200-0430Z†), other times ctc  
**WASHINGTON CENTER APP CON** 135.5 272.75

**TOWER** 126.25 370.875 (1200-0430Z†) **GND CON** 138.1 275.8 **CLNC DEL** 128.025 270.8

Ⓡ **DEP CON** 119.7 338.6 (South) 123.7 320.1 (North) 290.9 273.6 (0430-1200Z†), other times ctc  
**WASHINGTON CENTER DEP CON** 135.5 272.75

**4FW COMD POST** (RAYMOND 25) 311.0 321.0 (Have QUICK timing unavbl)

**916 ARW COMD POST** (LIGHTHOUSE CON) 311.0 **PMSV METRO** 323.925 Wx DSN 722-4089 (C919-722-4089)  
 forecaster avbl Mon-Fri 1200-2000Z† clsd holidays. Opr hrs may vary with local flying schedule. Wx obsn avbl 24 hrs via AWOS. AWOS augmented when rqr. Full svc avbl 26 OWS Barksdale AFB, DSN 781-4775, C318-456-4775.

**ACC SOF** (LION SOF) 376.1

**AIRSPACE:** CLASS D svc 1200-0430Z† other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

(L) **TACAN** Chan 112 GSB (116.5) N35°20.11' W77°58.28' at fld. 82/8W. Unmonitored 0430-1200Z†.  
 No NOTAM MP Mon and Fri 0500-1030Z† (1500/3+1).

**ILS 109.3** I-GSB Rwy 08. Unmonitored 0430-1200Z†. No NOTAM MP Mon-Fri 0500-1030Z† (3000/5+1)

**ILS 109.9** I-DDX Rwy 26. Unmonitored 0430-1200Z†. No NOTAM MP Mon-Fri 0500-1030Z† (3000/5+1), weekends 1400-1600Z†.

**PAR**

**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima. ATIS No NOTAM MP Fri 0900-1100Z†.

**SHELBY—CLEVELAND CO RGNL** (EHO) 3 SW UTC-5(-4DT) N35°15.35' W81°36.05'

847 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

RWY 05-23: H5002X100 (ASPH) S-21 MIRL

RWY 05: PAPI(P2L)—GA 3.0° TCH 41'. Trees.

RWY 23: PAPI(P2L)—GA 3.0° TCH 28'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†, Sat

1500-2000Z†, Sun 1800-2100Z†. Fuel avbl 24 hrs self-svc with credit card. For svc after hrs call 704-284-3321. Rwy 05 has 45' dropoff 100' from thld. Rwy 23 has 35' dropoff 600' from thld.

After 0300Z†, ACTIVATE MIRL Rwy 05-23—CTAF. PAPI Rwy 05 and Rwy 23 on continuously.

**WEATHER DATA SOURCES:** AWOS-3 118.425 (704) 487-0100.

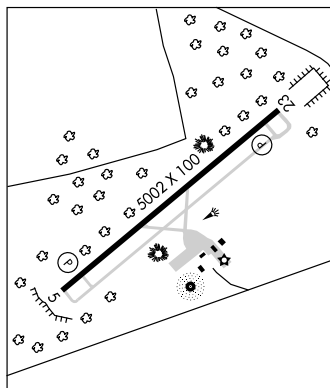
**COMMUNICATIONS:** CTAF/UNICOM 122.8

CHARLOTTE APP/DEP CON 134.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE AND.

SPARTANBURG (H) VORTAC 115.7 SPA Chan 104 N35°02.02' W81°55.62' 052° 20.9 NM to fld. 910/02W.

FIRST RIVER NDB (MHW) 417 SLP N35°15.16' W81°35.93' at fld. NOTAM FILE RDU.



**SHIFLET FLD** (See MARION)

**SILER CITY MUNI** (5W8) 3 SW UTC-5(-4DT) N35°42.27' W79°30.24'

614 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

RWY 04-22: H5000X75 (ASPH) S-25 MIRL 0.3% up NE

RWY 04: PAPI(P2L)—GA 4.0° TCH 40'. Tree.

RWY 22: PAPI(P2L)—GA 3.0° TCH 30'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2200Z†, Sun

1700-2200Z†. After hrs fuel or svcs call 919-545-0138 or 919-619-2707. Fuel 100LL avbl 24 hrs self svc. Deer and birds on and invof arpt. MIRL Rwy 04-22 preset low ints dusk-0500Z†; to increase ints and ACTIVATE after 0500Z†—CTAF. PAPI Rwy 04 and 22 opr continuously.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

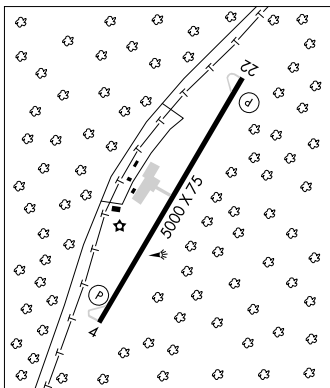
® GREENSBORO APP/DEP CON 118.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70'

W79°36.76' 143° 8.3 NM to fld. 830/03W.

NDB (MHW) 371 TOX N35°45.69' W79°27.74' 218° 4.0 NM to fld.



CHARLOTTE

H-9C, 12H, L-25E, 36F

IAP

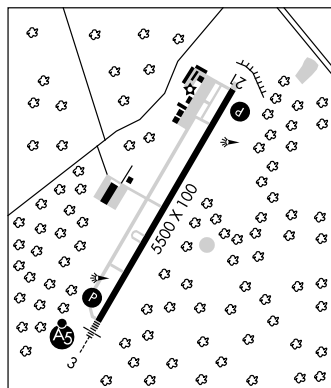
**SIMMONS AAF** (FORT BRAGG) (FBG)(KFBG) A 1 E UTC-5(-4DT) N35°07.92' W78°56.17' **CHARLOTTE**  
 244 B TPA—See Remarks NOTAM FILE FBG Not insp. **H-9C, 12H, L-35A, 36F**  
**RWY 09-27:** H5011X110 (ASPH) PCN 20 F/A/W/T MIRL **DIAP, AD**  
**RWY 09:** Thld dsplcd 705'.  
**RWY 27:** REIL, PAPI(P2L)—GA 2.9° TCH 39'. Thld dsplcd 197'.  
**MILITARY SERVICE: FUEL** J8 24hr PPR for cold fuel. Hot refuel hrs Mon-Fri 2100-0500Z‡.  
**MILITARY REMARKS:** Opr Mon-Fri 1200-0400Z‡ Sat-Sun 1200-2000Z‡, CLOSED holidays. When twr and/or surface visibility is blo 4 SM the lesser value will be reported as prevailing. See FLIP AP/1 Flt Hazard and Supplementary Arprt Remark. **RSTD** 24 hr PPR for remain overnight and all civil acft, DSN 236-7804, C910-396-7804. No Haz Cargo area avbl. **CAUTION** Bird hazard. Arprt perimeter lgt may cause pilot distraction. **TFC PAT** TPA—Fixed-wing 1250(1006), rotary-wing 1000(756). **MISC** Pilots notify Simmons OPS 20 minutes out with Code 6 or abv on board. All acft ctc GND CON prior to engine start. All wheeled rotary-wing acft gnd taxi until reaching twy. No refuel avbl on VIP spots.  
**COMMUNICATIONS:** ATIS 139.25  
**(R) FAYETTEVILLE APP/DEP CON** 133.0 295.0  
**TOWER** 125.9 240.625 (Mon 0510Z‡-Sat 0400Z‡, clsd holidays) **GND CON** 121.9 229.4 **CLNC DEL** 121.9 229.4  
**FLT ADVISORY** 125.9 240.625 **PMSV METRO** 141.25 265.6 (Mon 0400Z‡-Sat 0400Z‡, clsd holidays. Full svc during opr hr, other times remote briefing from 26 OWS Barksdale AFB, LA, DSN 781-4775, C318-456-4775.  
**BASE OPS** 142.35 245.5  
**AIRSPACE:** CLASS D svc Mon 0510Z‡-Sat 0400Z‡, clsd holidays, other times CLASS G.  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE FAY.  
**FAYETTEVILLE (L) VOR/DME** 108.8 FAY Chan 25 N34°59.13' W78°56.38' 273° 6.1 NM to fld. 179/04W.  
**FORT BRAGG NDB (MHW)** 393 FGP N35°08.33' W78°48.75' 275° 6.1 NM to fld. NOTAM FILE FBG.  
 Unmonitored Mon-Fri 0400-1200Z‡, Sat-Sun and holidays 2000-1200Z‡. No NOTAM MP 1st Mon 1300-1330Z‡.  
**ASR/PAR** Mon-Fri 1200-0400Z‡, clsd holidays)  
**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.

## SKY MANOR (See JACKSONVILLE)

**SLAMMER** N36°22.90' W79°45.77' NOTAM FILE RDU. **CINCINNATI**  
**NDB (MHW)** 423 SIF 315° 5.4 NM to Rockingham Co NC Shiloh. NDB unmonitored. **L-26J, 36F**

## SMITHFIELD

**JOHNSTON CO** (JNX) 3 NW UTC-5(-4DT) N35°32.46' W78°23.42' **CHARLOTTE**  
 164 B S4 **FUEL** 100LL, JET A1+ TPA—1199(1035) NOTAM FILE JNX **H-9C, 12H, L-35B, 36F**  
**RWY 03-21:** H5500X100 (ASPH) S-65, D-65 MIRL 0.3% up NE **IAF**  
**RWY 03:** MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Trees.  
**RWY 21:** REIL. PAPI(P4L)—GA 4.0° TCH 49'. Trees.  
**AIRPORT REMARKS:** Attended Mon-Fri 1200-0000Z‡, Sat and Sun 1300-2300Z‡. Unattended Thanksgiving and Christmas day. Deer on and invof arprt. Be alert when taxiing near south ramp/corporate hangar. Rwy 03-21 30' dropoff 350' from Rwy 21 thld to left and right of centerline. 50' AGL twr 200' SW of Rwy 03 centerline. Avoid overflights of housing area in tfc pattern for noise abatement. Fly wider down winds and longer dep legs. Between 0130-1100Z‡ **ACTIVATE** MIRL Rwy 03-21, MALSR Rwy 03, REIL Rwy 21, PAPI Rwy 03 and Rwy 21, and twy lgt—CTAF.  
**WEATHER DATA SOURCES:** AWOS-3 120.225 (919) 934-3851.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
**(R) RALEIGH APP/DEP** 125.3  
**GCO** 135.075 (RALEIGH CLNC and FLIGHT SERVICES)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.  
**RALEIGH/DURHAM (H) VORTACW** 117.2 RDU Chan 119 N35°52.35' W78°47.00' 140° 27.6 NM to fld. 429/04W.  
**JURLY NDB (MHW/LOM)** 263 JN N35°28.50' W78°25.52' 032° 4.3 NM to fld. NOTAM FILE JNX. NDB unmonitored 2200-1300Z‡. NDB unusable byd 15 NM.  
**ILS/DME** 111.15 I-JNX Chan 48(Y) Rwy 03. Class IB. LOM JURLY NDB. JURLY (JN) NDB unmonitored 2200-1300Z‡. ILS GS/LOC unmonitored 2200-1300Z‡. DME unmonitored. JURLY(JN) NDB unusable byd 15 NM. OM OTS indef.



## SMITH REYNOLDS (See WINSTON SALEM)

**SOUTHEAST GREENSBORO** (See GREENSBORO)**SPRUCE PINE****AVERY CO/MORRISON FLD** (7A8) 4 NE UTC-5(-4DT) N35°56.67' W81°59.74'**CHARLOTTE**  
**L-25C**2750 S4 **FUEL** 100LL, JET A NOTAM FILE RDU**RWY 17-35:** H3000X50 (ASPH) S-12.5**RWY 17:** Building. Rgt tfc.**RWY 35:** Trees.**AIRPORT REMARKS:** Attended Tue-Fri 1400-2200Z†, Sat 1600-2300Z†, Sun 1800-2300Z†. CLOSED on Mon.

Self-svc fueling after hrs with credit card. JET A with additive premixed. FBO svc avbl. Arpt rstd to VFR only. Rwy 35 mountainous terrain above rwy elevation - 6000' from rwy end - 650' above rwy elevation - on centerline.

Rwy 35 has 60' dropoff 200' from thld and 60' dropoff 70' left of centerline. Rwy 17 has 40' dropoff 300' from thld. Military ops in and around vicinity of arpt. Wildlife in and around vicinity of arpt. Gravel mining ops west of and adjacent to rwy. High terrain all quadrants, daylight VFR ops only, Rwy 35 uphill grade, Rwy 17 rgt traffic preferred for takeoff. Rwy 17 preferred for tkfs - Rwy 35 preferred for landings. Arpt phone number 828-766-8187.

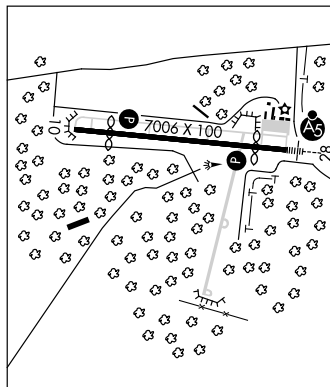
**COMMUNICATIONS:** CTAF/UNICOM 123.0**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.**HOLSTON MOUNTAIN (L) VORTAC** 114.6 **HMV** Chan 93 N36°26.22' W82°07.77' 172° 30.2 NM to fld.  
4321/04W.**STALS** N35°14.64' W77°41.90' NOTAM FILE ISO.**CHARLOTTE****NDB (LOM)** 276 **IS** 049° 6.8 NM to Kinston Rgnl Jetport At Stallings Fld.**STANLY CO** (See ALBEMARLE)**STAR****MONTGOMERY CO** (43A) 0 NE UTC-5(-4DT) N35°23.08' W79°47.42'**CHARLOTTE**  
**L-25E, 36F**628 B S4 **FUEL** 100LL, JET A NOTAM FILE RDU**RWY 03-21:** H4001X75 (ASPH) S-11.4 **MIRL****RWY 03:** Trees.**RWY 21:** Thld dspcd 460'. Trees.**AIRPORT REMARKS:** Attended 1300-2200Z†. Deer occasionally on rwy. 40' p-line 350'-750' from thld Rwy 21 across and left of centerline. 20'-25' depressed area 180' S of Rwy 03 thld on centerline. Rwy 03 has uphill grade.**COMMUNICATIONS:** CTAF/UNICOM 122.8**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**SANDHILLS (L) VORTAC** 111.8 **SDZ** Chan 55 N35°12.93' W79°35.28' 319° 14.2 NM to fld. 590/03W.**STATESVILLE RGNL** (SVH) 3 SW UTC-5(-4DT) N35°45.90' W80°57.23'**CHARLOTTE**968 B S4 **FUEL** 100LL, JET A, JET A1+ **OX** 1,3 **TPA**-1768(800)**H-9B, 12H, L-25D**

NOTAM FILE SVH

**IAP****RWY 10-28:** H7006X100 (ASPH) S-30, D-100 **HIRL****RWY 10:** REIL. PAPI(P2L)-GA 3.0° TCH 61'. Thld dspcd 1000'.  
Trees.**RWY 28:** MALSR. PAPI(P2L)-GA 3.0° TCH 57'. Thld dspcd 550'.  
Trees.**RUNWAY DECLARED DISTANCE INFORMATION****RWY 10:** TORA-7006 TODA-7006 ASDA-6456 LDA-5456**RWY 28:** TORA-7006 TODA-7006 ASDA-6006 LDA-5456**AIRPORT REMARKS:** Attended Mon-Fri 1100-0200Z†, Sat-Sun

1300-0200Z†. For after hrs svc call (704) 236-3319 or (704)

987-8679. Rwy 28 has 100' drop-off 250' right of centerline.

ACTIVATE REIL Rwy 10, MALSR Rwy 28, PAPI Rwy 10 and Rwy 28-CTAF. **HIRL** Rwy 10-28 preset on med ints dusk-0400Z†, to increase inst ACTIVATE-CTAF. After 0400Z† ACTIVATE **HIRL** Rwy 10-28-CTAF.**WEATHER DATA SOURCES:** AWOS-3 119.225 (704) 873-1978.**COMMUNICATIONS:** CTAF/UNICOM 123.075® **ATLANTA CENTER APP/DEP CON** 125.15**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**BARRETT'S MOUNTAIN (L) VOR/DME** 110.8 **BZM** Chan 45 N35°52.13' W81°14.43' 120° 15.3 NM to fld.  
1880/06W.**ILS/DME** 111.75 **I-SVH** Chan 54(Y) Rwy 28. LOC unusable byd 15° right of course.**COMM/NAV/WEATHER REMARKS:** AWOS-3 wind unavailable.

**STONIA** N35°11.48' W81°09.43' NOTAM FILE RDU.

**CHARLOTTE**

**NDB (MHW)** 260 GHJ at Gastonia Muni. NDB unmonitored 2330–1130Z during standard time, 2330–1030Z during daylight savings time.

**L-25D, 36E**

**SUGARLOAF MOUNTAIN** N35°24.39' W82°16.12' NOTAM FILE RDU.

**ATLANTA**

(L) **VORTAC** 112.2 SUG Chan 59 280° 13.5 NM to Asheville Rgnl. 3970/02W.

**L-25C**

**RCO** 122.3 122.2 122.1R 112.2T (RALEIGH RADIO)

**SUGAR VALLEY** (See MOCKSVILLE)

**SWAN CREEK** (See JONESVILLE)

## SYLVA

**JACKSON CO** (24A) 3 SE UTC-5(-4DT) N35°19.05' W83°12.60'

**ATLANTA**

2857 B **FUEL** 100LL TPA-3857(1000) NOTAM FILE RDU

**L-25B**

**Rwy 15-33:** H3003X50 (ASPH) S-12.5 HIRL

**Rwy 15:** Tree. **Rwy 33:** Trees.

**AIRPORT REMARKS:** Attended irregularly. For assistance call 828-508-6954. Self-service fuel avbl 24 hrs with credit card. Rwy 15, 300' dropoff 300' from thld both sides and 90' left and right of centerline along rwy. Rwy 33, 300' dropoff 200' from thld 50' left of centerline. Mountain hazard bcn lgts located on mountain range approximately 1.7 miles SSW of arpt. Rwy 33 numbers smaller than standard. **ACTIVATE HIRL** Rwy 15-33—CTAF.

**COMMUNICATIONS: CTAF/UNICOM** 123.0

**SNOWBIRD (L) VORTAC** 108.8 SOT Chan 25 N35°47.41' W83°03.14' 199° 29.4 NM to fld. 4239/04W.

**TARBORO-EDGEcombe** (ETC) 2 N UTC-5(-4DT) N35°56.24' W77°32.79'

**CHARLOTTE**

53 B NOTAM FILE RDU

**L-35C, 36E**

**Rwy 09-27:** H4000X60 (ASPH) MIRL

**IAP**

**Rwy 09:** PAPI(P2L)—GA 4.0° TCH 28'. Thld dsplcd 200'. Trees.

**Rwy 27:** REIL. PAPI(P2L)—GA 3.0° TCH 38'. Trees.

**AIRPORT REMARKS:** Unattended. Deer on and invof arpt. 500' low level route 3 miles NE of arpt—be alert for military acft invof arpt. **ACTIVATE MIRL** Rwy 09-27, REIL Rwy 27 and PAPI Rwy 09 and Rwy 27—CTAF.

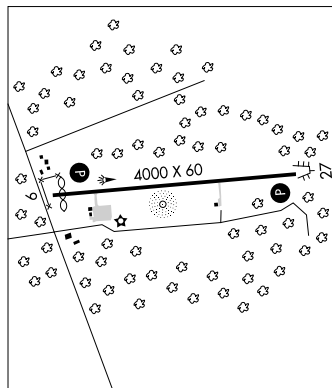
**COMMUNICATIONS: CTAF** 122.9

**WASHINGTON CENTER APP/DEP CON** 118.475

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**TAR RIVER (L) VORTAC** 117.8 TYI Chan 125 N35°58.61' W77°42.23' 112° 8.0 NM to fld. 70/05W.

**NDB (MHW)** 257 ETC N35°56.13' W77°32.78' at fld.



**TAR RIVER** N35°58.61' W77°42.23' NOTAM FILE RDU.

**CHARLOTTE**

(L) **VORTAC** 117.8 TYI Chan 125 237° 11.7 NM to Rocky Mt-Wilson Rgnl. 70/05W

**H-9C, 12H, L-35C, 36E**

**RCO** 122.1R 117.8T (RALEIGH RADIO)

**TAWBA** N35°47.19' W81°18.32' NOTAM FILE HKY.

**CHARLOTTE**

**NDB (MHW)** 332 HK 243° 4.9 NM to Hickory Rgnl.

**L-25D**

**TRIANGLE NORTH EXECUTIVE** (See LOUISBURG)



**THOMASVILLE****HIATT** (N97) 3 SW UTC-5(-4DT) N35°49.81' W80°06.45'

CHARLOTTE

855 B S4 FUEL 100LL NOTAM FILE RDU

RWY 01-19: 2500X75 (TURF) LIRL

RWY 01: Trees. RWY 19: TRCV (TRIL)—GA 3.2° TCH 25'. Trees.

RWY 09-27: 1160X50 (TURF)

RWY 09: Trees. RWY 27: Trees.

**AIRPORT REMARKS:** Attended 1700Z†-dusk. For fuel call 336-881-0248. Rwy 27 has +4' fence and +30' trees 30' from thld and 12' building 70' from thld on extended centerline. Rwy 09-27 used primarily for ultralights. Rwy 27 uphill marked with yellow cones. Rwy 19 preferred for ldg uphill; rwy and thlds marked with yellow cones. Act monitor 122.9. ACTIVATE LIRL Rwy 01-19 and TRIL Rwy 19—CTAF.

**COMMUNICATIONS:** CTAF 122.9**TRI-COUNTY** (See AHOSKIE)**TRIPLE W** (See RALEIGH)**TRYON** N35°09.49' W81°01.24' NOTAM FILE CLT.

CHARLOTTE

NDB (LOM) 242 CL 056° 5.1 NM to Charlotte/Douglas Intl.

**TWIN LAKES** (See MOCKSVILLE)**US HELIPORT** (See WINGATE)**WADESBORO****ANSON CO-JEFF CLOUD FLD** (AFP) 3 N UTC-5(-4DT) N35°01.24' W80°04.63'

CHARLOTTE

300 B FUEL 100LL, JET A1+ NOTAM FILE RDU

H-9B, 12H, L-25E, 36E

RWY 16-34: H5498X100 (ASPH) S-12, D-60 MIRL

IAP

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Trees.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 29'. Trees.

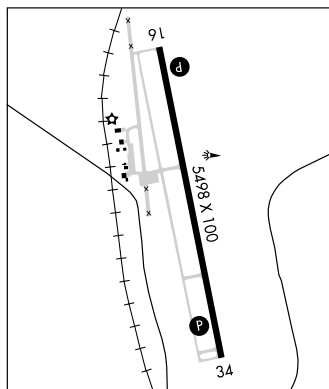
**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†. For after hrs svc call 704-848-4612. 100LL fuel-24 hr self-svc avbl with credit card. Deer in vicinity of arpt. Rwy 34 +6' hill from rwy end and 216' right of rwy centerline. Rwy 16-34 used for both aeronautical tow and auto launch for gliders. ACTIVATE MIRL Rwy 16-34, PAPI Rwy 16 and Rwy 34, and REIL Rwy 16 and Rwy 34—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 119.325. (704) 695-0623.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® CHARLOTTE APP/DEP CON 120.05

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

**SANDHILLS (L) VORTAC** 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 247° 26.8 NM to fld. 590/03W.



**WALLACE****HENDERSON FLD** (ACZ) 1 SW UTC-5(-4DT) N34°43.07' W78°00.22'

CHARLOTTE

39 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

L-35B

RWY 09-27: H3998X75 (ASPH) S-12.5 MIRL

IAP

RWY 09: Thld displcd 149'. Trees.

RWY 27: PAPI(P2L)—GA 3.45° TCH 43'. Thld displcd 151'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z†, Sat 1400-2300Z† and Sun 1800-2300Z†. 24 hr self svc fuel with credit card. 24 hr access to pilots' lounge—door code on fuel receipt. Parachute Jumping. PAPI Rwy 27 opr continuously.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ WILMINGTON APP/DEP CON 135.75 (1100-0400Z‡)

Ⓡ WASHINGTON CENTER APP/DEP CON 124.025 (0400-1100Z‡)

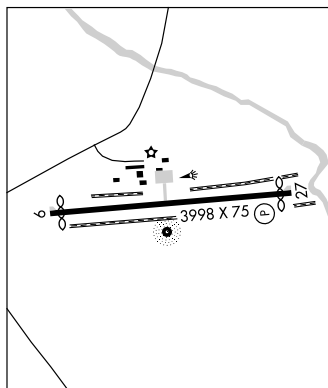
**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26'

W77°33.50' 214° 44.9 NM to fld. 106/05W.

PENDY NDB (MHW) 379 ACZ N34°42.98' W78°00.22' at fld.

NOTAM FILE RDU.

**WALNUT COVE****MEADOW BROOK FLD** (N63) 1 NW UTC-5(-4DT) N36°18.09' W80°08.90'

CINCINNATI

631 S4 FUEL 100LL NOTAM FILE RDU

L-25D, 36F

RWY 16-34: H2725X30 (ASPH) LIRL (NSTD)

IAP

RWY 16: Trees.

RWY 34: Trees.

**AIRPORT REMARKS:** Attended irregularly. Arprt CLOSED to transients except PPR—336-403-1796. High terrain all quadrants. +8' dropoff AER 16. Fencing in the clear zone Rwy 16 and Rwy 34. Do not land on grass adjacent to rwy—deep ditches. No transient stopping tfc—will allow touch and go. Rwy 16-34 NSTD LIRL; lgts 30' either side of asph along old turf rwy. NSTD thld lgts with green, red, clear and BI-Directional lens. 3 thld lgts with blue lens. +50' trees within 125' of centerline on west side of rwy. +65' trees within 110' of centerline east of rwy. ACTIVATE LIRL Rwy 16-34—CTAF.

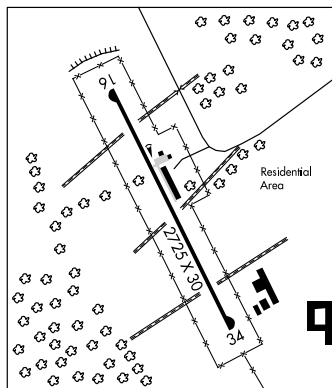
**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ GREENSBORO APP/DEP CON 124.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74'

W79°58.58' 334°17.5 NM to fld. 879/03W

**WARF** (See REIDSVILLE)**WARREN FLD** (See WASHINGTON)

**WASHINGTON****WARREN FLD** (OCW) 0 NE UTC-5(-4DT) N35°34.23' W77°02.99'

38 B FUEL 100LL, JET A1 + NOTAM FILE OCW

RWY 17-35: H5000X150 (ASPH-CONC) S-22 MIRL

RWY 17: Thld dsplcd 501'. Pole. RWY 35: Trees.

RWY 05-23: H5000X100 (ASPH) S-30, D-38 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees.

RWY 23: REIL VASI(V2L)—GA 3.0° TCH 40'. Thld dsplcd 199'. Trees.

RWY 11-29: H4000X150 (ASPH-CONC) S-22

RWY 11: Trees. RWY 29: Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2300Z±, Sun

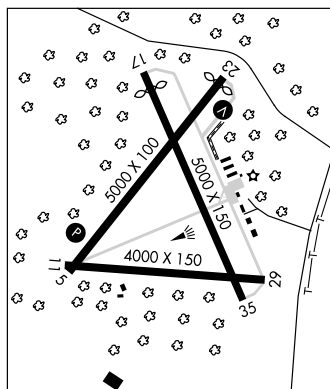
1300-2200Z±. CLOSED Thanksgiving and Christmas. For fuel after hrs call 252-975-9320. Rwy 11-29 CLOSED only when NOTAMS issued. Deer and birds on and in/ovf arpt. Parachute Jumping. Loose aggregate/gravel on all rwys. Rwy 17-35 loose gravel, pot holes, cracks, pavement heaving and spalling, vegetation in rwy. Rwy 11-29 grass growing through cracks and small pot holes, pavement heaving and spalling. Twys not lgtd. Rwy 05 PAPI OTS indef. MIRL Rwy 05-23 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 17-35, VASI Rwy 23, PAPI Rwy 05 and REIL Rwy 05 and Rwy 23 —CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.175 (252)975-6133.**COMMUNICATIONS:** CTAF/UNICOM 122.7⑧ **WASHINGTON CENTER APP/DEP CON** 135.5**RADIO AIDS TO NAVIGATION:** NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 069° 27.6 NM to fld. 106/05W.

CHOCOWINITY NDB (MHW) 388 RNW N35°30.58' W77°06.40' 044° 4.6 NM to fld. NOTAM FILE OCW.

ILS/DME 110.9 I-OCW Chan 46 Rwy 05. LOC only.

**WAXHAW****JAARS-TOWNSEND** (N52) 3 S UTC-5(-4DT) N34°51.83' W80°44.88'

602 B FUEL 100LL, JET A NOTAM FILE RDU

RWY 04-22: H3309X40 (ASPH) LIRL (NSTD)

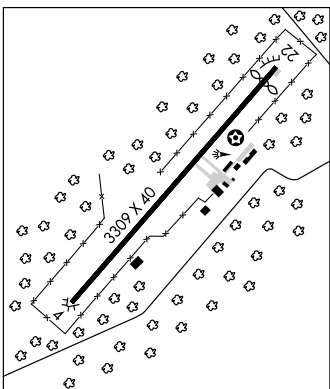
RWY 04: Trees. RWY 22: Thld dsplcd 200'. Trees.

**AIRPORT REMARKS:** Attended Mon-Fri 1300-2200Z±. Deer on and in/ovf arpt. Ultralight activity on and in/ovf arpt. Rwy 04-22 has 20 ft down slope between ends. Rwy 04-22 NSTD LIRL, edge lgts 30 ft from pavement. Surface variations in rwy surface area. Rwy 04-22 markings NSTD size. Ngt tkf use Rwy 22. Ngt ldg use Rwy 04 unless wind dictates otherwise. ACTIVATE rotating bcn—CTAF. ACTIVATE LIRL Rwy 04-22—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 123.0⑧ **CHARLOTTE APP/DEP CON** 120.05**RADIO AIDS TO NAVIGATION:** NOTAM FILE CLT

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 158° 22.0 NM to fld. 732/05W. HIWAS.

FORT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.34' W80°57.29' 128° 12.7 NM to fld. 645/02W. NOTAM FILE AND. SHUTDOWN.

**WESLEY** N34°57.18' W80°42.31' NOTAM FILE EQY.

NDB (MHW) 204 TWL 052° 5.8 NM to Charlotte-Monroe Executive. NDB unmonitored 2200-1300Z±.

CHARLOTTE

L-25D, 36E

**WESTERN CAROLINA RGNL** (See ANDREWS)

**WHITEVILLE****COLUMBUS CO MUNI** (CPC) 3 S UTC-5(-4DT) N34°16.37' W78°42.90'**CHARLOTTE**

99 B FUEL 100LL, JET A1+ NOTAM FILE CPC

H-9C, 12H, L-35A

RWY 06-24: H5500X75 (ASPH) S-24, D-30 MIRL 0.5% up SW

IAP

RWY 06: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees.

RWY 24: VASI(V2L)—GA 3.0° TCH 37'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2300Z†, Sun 1400-2300Z†. Arpt unattended Christmas day. For emergency svc after hrs call 910-654-3389/642-0685. Deer on and invof arpt. Rwy 24 has 15' dropoff 200' from thld both sides. Rwy 06 REIL OTS indef. Rwy 24 VASI OTS indef. MIRL Rwy 06-24 opr dusk-0500Z†, after 0500Z† ACTIVATE MIRL Rwy 06-24—CTAF. ACTIVATE REIL Rwy 06—CTAF. PAPI Rwy 06 and VASI Rwy 24 on continuously.

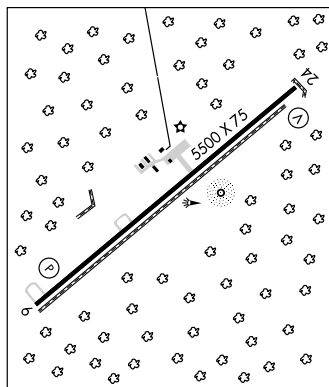
**WEATHER DATA SOURCES:** AWOS-3 118.375 (910) 642-7508.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ MYRTLE BEACH APP/DEP CON 119.2 (1100-0400Z†)

JAX CENTER APP/DEP CON 128.7 (0400-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE FLO.**FLORENCE (H) VORTAC** 115.2 FLO Chan 99 N34°13.98'W79°39.43' 090° 46.9 NM to fld. 110/03W. **HIWAS.****CAMP NDB (MHW)** 227 CPC N34°16.31' W78°42.84' at fld.

NOTAM FILE RDU. Unmonitored Mon-Sat 2300-1300Z† and Sun 2300-1400Z†.

**WHITFIELD FARMS** (See HURDLE MILLS)**WILGROVE AIR PARK** (See CHARLOTTE)**WILKESBORO** N36°13.36' W81°05.92'**CINCINNATI**

RCO 122.4 (RALEIGH RADIO) at Wilkes Co.

L-25D

**WILKES CO** (See NORTH WILKESBORO)**WILKI** N36°06.77' W81°05.89' NOTAM FILE RDU.**CINCINNATI**

NDB (MHW/LOM) 209 UKF 006°6.6 NM to Wilkes Co.

L-25D

**WILLIAMSTON** N35°51.54' W77°10.68' NOTAM FILE RDU.**CHARLOTTE**

NDB (MHW) 336 MCZ at Martin Co.

L-35C

**WILLIAMSTON****MARTIN CO** (MCZ) 6 W UTC-5(-4DT) N35°51.73' W77°10.69'**CHARLOTTE**

76 B FUEL 100LL NOTAM FILE RDU

H-9C, 12H, L-35C

RWY 03-21: H5000X75 (ASPH) S-21 MIRL

IAP

RWY 03: PAPI(P2L)—GA 3.0° TCH 31'. Road.

RWY 21: PAPI(P2L)—GA 3.0° TCH 24'. Trees.

**AIRPORT REMARKS:** Attended 1300-2200Z†. For fuel after hrs call 252-792-1964 or 252-809-2281. For svc after hrs call 252-792-1964. Deer on and invof arpt. PAPI RWY 03, Rwy 21 opr continuously. MIRL Rwy 03-21 dusk to dawn; to change intensity of MIRL Rwy 03-21—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

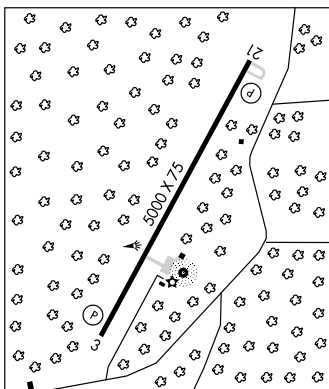
Ⓡ WASHINGTON CENTER APP/DEP CON 135.5

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.**TAR RIVER (L) VORTAC** 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 110° 26.5 NM to fld. 70/05W

**WILLIAMSTON NDB (MHW)** 336 MCZ N35°51.54' W77°10.68'

at fld.



**WILMINGTON INTL** (ILM)(KILM) CIV/MIL/AF 3 NE UTC-5(-4DT) N34°16.24' W77°54.15'

32 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index B

NOTAM FILE ILM

**RWY 06-24:** H8016X150 (ASPH-GRVD) S-75, D-160, 2S-175, 2D-275 PCN 100 F/A/X/T HIRL

**RWY 06:** REIL. VASI(V4L)—GA 3.0° TCH 60'.

**RWY 35:** MALSR. PAPI(P4L)—GA 3.0° TCH 48'.

**RWY 17-35:** H7004X150 (ASPH-GRVD) S-60, D-185, 2S-175, 2D-300 PCN 24 F/A/X/T HIRL

**RWY 17:** REIL. VASI(V4L)—GA 3.0° TCH 53'. Tree.

**RWY 35:** MALSR. PAPI(P4L)—GA 3.0° TCH 34'. Dsplcd thld 400'.

#### RUNWAY DECLARED DISTANCE INFORMATION

**RWY 06:** TORA-8016 TODA-8016 ASDA-8016 LDA-8016

**RWY 17:** TORA-7004 TODA-7004 ASDA-6204 LDA-6204

**RWY 24:** TORA-8016 TODA-8016 ASDA-8016 LDA-8016

**RWY 35:** TORA-7004 TODA-7004 ASDA-7004 LDA-6604

**MILITARY SERVICE: FUEL** (NC-100LL). A+ (Air Wilmington, Inc, C910-763-4691.)

**AIRPORT REMARKS:** Attended continuously. Acft taxiing from S ramp obtain ATC clnc prior to crossing Rwy 17-35 1100-0400Z†. Rwy 24 touchdown runway visual range avbl. ACTIVATE REIL Rwy 06 and Rwy 24, MALSR Rwy 24, HIRL Rwy 06-24, all twy lgts—CTAF. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (C910) 343-9489

**COMMUNICATIONS:** CTAF 119.9 ATIS 124.975 UNICOM 122.95

RCO 122.1R 117.0T (RALEIGH RADIO)

RCO 122.55 (RALEIGH RADIO)

Ⓡ APP/DEP CON 135.75 317.425 (344°-163°) 118.25 284.65 (164°-343°)(1100-0400Z†)

Ⓡ WASHINGTON CENTER APP/DEP CON 135.75 317.425 (0400-1100Z†)

TOWER 119.9 239.3 (1100-0400Z†) GND CON 121.9 348.6 CLNC DEL 121.9 348.6

**AIRSPACE:** CLASS D svc 1100-0400Z† other times CLASS E.

TRSA svc ctc APP CON within 20 NM.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ILM.

(H) VORTAC 117.0 ILM Chan 117 N34°21.10'W77°52.46' 205° 5.1 NM to fld. 20/07W.

VOR portion unusable:

165°-169°

186°-219° byd 16 NM blo 3000'

186°-219° byd 21 NM

186°-219° blo 2000'

220°-273° byd 5 NM blo 17,500'

274°-314° byd 5 NM

315°-164° byd 5 NM blo 8,000'

**GRAND STRAND (L) VORTAC** 117.6 CRE Chan 123 N33°48.83' W78°43.47' 059° 49.3 NM to fld.

20/03W. NOTAM FILE CRE.

**AIRLI NDB (LOM)** 281 IL N34°11.48' W77°51.98' 346° 5.1 NM to fld. Unmonitored when twr clsd.

**WILZE NDB (LOM)** 205 GM N34°20.25' W77°48.71' 236° 6.0 NM to fld.

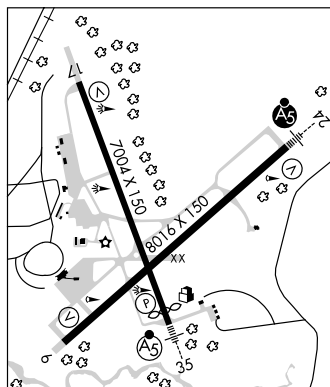
**ILS 110.3** I-ILM Rwy 35. Class IB. LOM AIRLI NDB. ILS unmonitored when twr clsd. LOC unusable byd 26° right of course.

**ILS 111.55** I-GMX Rwy 24. Class IE. LOM WILZE NDB.

**ILS/DME 109.95** I-GNM Chan 36(Y) Rwy 06. GS unusable byd 7° right of course.

ASR

**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.



**CHARLOTTE**  
H-9C, L-35B  
DIAP, AD

**WILSON INDUSTRIAL AIR CENTER** (W03) 3 N UTC-5(-4DT) N35°46.22' W77°58.19'

CHARLOTTE

161 B FUEL 100LL, JET A1+ NOTAM FILE RDU

L-35B, 36G

RWY 03-21: H4500X150 (ASPH) S-20 MIRL

IAP

RWY 03: REIL. PAPI(P2L)—GA 3.54°TCH 40'. Trees.

RWY 21: REIL. PAPI(P2L)—GA 3.81°TCH 40'. Trees.

RWY 09-27: H4500X150 (ASPH) S-20

RWY 09: Trees. RWY 27: Trees.

RWY 15-33: H4499X150 (ASPH) S-20

RWY 15: Trees. RWY 33: Trees.

**AIRPORT REMARKS:** Attended 1300-2300Z±. For svc after hrs call 252-904-9706. Deer on and invof arpt. No line-of-sight between rwy ends. MIRL Rwy 03-21 preset low ints; to increase ints and ACTIVATE PAPI and REIL Rws 03 and 21—CTAF.

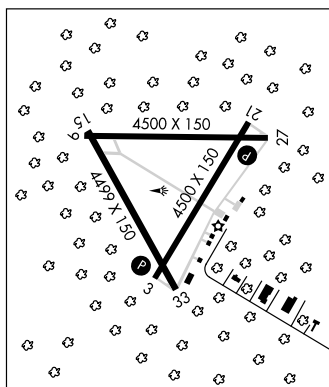
**COMMUNICATIONS:** CTAF/UNICOM 123.0⑧ **WASHINGTON CENTER APP/DEP CON** 118.475

GCO 121.725 (FLIGHT SERVICES)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 231° 17.9 NM to fld. 70/05W.

**COMM/NAV/WEATHER REMARKS:** GCO OTS indef.**WILSON'S** (See HICKORY)**WILZE** N34°20.25' W77°48.71' NOTAM FILE ILM.

CHARLOTTE

NDB (LOM) 205 GM 236° 6.0 NM to Wilmington Intl.

**WINGATE****US HELIPORT** (N46) 3 N UTC-5(-4DT) N34°59.06' W80°25.15'

CHARLOTTE

590 S4 FUEL JET A NOTAM FILE RDU

HELIPAD H1: 100X100 (TURF)

**HELIPORT REMARKS:** Attended Mon-Fri 1300-2200Z±. PPR weekdays 2200Z±-SR and weekends/holidays, call 704-233-4254. PPR for ngt ops. Unmarked p-lines N and S of pad. Helicopters with gross weight over 10,000 pounds use TURF W of CONC pad but within fenced area. Tkf and ldg in all quadrants into prevailing wind.

**COMMUNICATIONS:** CTAF/UNICOM 123.075

**WINSTON SALEM****SMITH REYNOLDS** (INT) 3 NE UTC-5(-4DT) N36°08.02' W80°13.32'

CINCINNATI

969 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA ARFF Index—See Remarks  
NOTAM FILE INTH-9B, 12H, L-25D, 36F  
IAP, AD

RWY 15-33: H6655X150 (ASPH-GRVD) S-110, D-135, 2S-175, 2D-230 HIRL 1.0% up NW

RWY 15: REIL. PAPI(P4L)—GA 3.0°TCH 36'. Thld displcd 586'. Bldg.

RWY 33: MALSR.

RWY 04-22: H3938X150 (ASPH) S-40, D-55, 2D-90 MIRL 0.3% up NE

RWY 04: Trees. RWY 22: PAPI(P2L)—GA 3.0°TCH 39'. Trees.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 33	04-22	6010

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 04: TORA-3938 TODA-3938 ASDA-3938 LDA-3938

RWY 15: TORA-6655 TODA-6655 ASDA-6655 LDA-6069

RWY 22: TORA-3938 TODA-3938 ASDA-3938 LDA-3938

RWY 33: TORA-6655 TODA-6655 ASDA-6655 LDA-6655

**ARRESTING GEAR/SYSTEM**

RWY 15: EMAS

RWY 33: EMAS

**AIRPORT REMARKS:** Attended continuously. Class IV, ARFF Index A. CLOSED to air carrier opr with more than 30 passenger seats 0400-1200Z† except 24 hr PPR. ARFF Index B coverage also avbl, call arpt manager 336-767-6361. Boeing 727-200 series are restricted to rwy 15-33, terminal ramp, and Twy A and Twy F only. Rwy 33 touchdown rwy visual range avbl. HIRL Rwy 15-33 preset on med ints when twr clsd, MIRL Rwy 04-22 unavailable when twr clsd. When twr clsd ACTIVATE REIL Rwy 15 and MALSR Rwy 33—CTAF. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (336) 661-3096. LAWRS.**COMMUNICATIONS:** CTAF 123.75 ATIS 121.3 UNICOM 122.95

Ⓡ GREENSBORO APP/DEP CON 124.35

WINSTON SALEM TOWER 123.75 (1145-0230Z†) GND CON 128.25

**AIRSPACE:** CLASS D svc 1145-0230Z† other times CLASS G.**RADIO AIDS TO NAVIGATION:** NOTAM FILE GSO.GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74' W79°58.58' 297° 13.1 NM to fld. 879/03W.  
HIWAS.

REENO NDB (LOM) 317 IN N36°04.26' W80°10.01' 332° 4.6 NM to fld. Unmonitored when twr clsd.

ILS 110.3 I-INT Rwy 33. Class IB. LOM REENO NDB. GS unusable byd 7° left and byd 4° right of course.

**WOODVILLE** N36°15.78' W76°17.88' NOTAM FILE ECG.

WASHINGTON

NDB (MHW) 254 LLW 101° 6.0 NM to Elizabeth City CG Air Station/Rgnl.

L-35C

**WRIGHT BROTHERS** N35°55.23' W75°41.82' NOTAM FILE MQI.

CHARLOTTE

(T) VORW/DME 111.6 RBX Chan 53 at Dare Co Rgnl. 10/08W.

L-35D

VOR unusable 281°-318° blo 8000', 319° blo 4000' and 320°-280°. Unmonitored 2300-1300Z†.

**YADKINVILLE****LONE HICKORY** (80C) 6 S UTC-5(-4DT) N36°03.08' W80°41.37'

CINCINNATI

1000 NOTAM FILE RDU Not insp.

RWY 16-34: 2000X60 (TURF)

RWY 16: Road. RWY 34: Trees.

**AIRPORT REMARKS:** Attended irregularly. Call 336-463-4680. Acft opr from Piney Ridge Arpt 1.3 mi northwest. Acft parked 90' from centerline at rwy mid point. Rwy 16-34 has 3% grade, winds permitting tkf Rwy 34 and ldg Rwy 16. P-lines 500'-1000' north Rwy 16 thld. No fit training or student pilots only experienced pilots permitted. Rwy 34 dep make left turn for noise and obstruction avoidance.

**COMMUNICATIONS:** CTAF 122.9**YANCEYVILLE****CASWELL** (6W4) 2 W UTC-5(-4DT) N36°23.98' W79°23.57'

CINCINNATI

648 NOTAM FILE RDU

RWY 04-22: 1735X150 (TURF)

RWY 04: Brush. RWY 22: Trees.

**AIRPORT REMARKS:** Unattended. Deer on and invof arpt. Model acft activity on arpt. Rwy 04-22 +50'-70' trees along both sides of rwy. Occasional nighttime military ops. Rwy 04-22 marked with yellow cones.

**COMMUNICATIONS:** CTAF 122.9**ZEPHYR** N36°18.79' W80°43.40' NOTAM FILE RDU.

CINCINNATI

NDB (MHW) 326 ZEF 242° 3.6 NM to Elkin Muni.

L-25D

## 2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During calendar year 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2010 aerial demonstration locations, subject to change without notice, are:

DATE:	USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
September 25-26	McConnell AFB, KS	MCAS Kaneohe Bay, HI		Chico, CA
October 1-3		MCAS Miramar, CA		MCAS Miramar, CA
2-3	Salinas, CA		MCAS Miramar, CA	
2-3			Jackson, MS	
9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
16-17	El Paso, TX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
23-24		NAS Jacksonville, FL	Washington, DC	
30-31	Houston, TX	Ft Worth Alliance, TX	Ft Worth Alliance, TX	
	Cocoa Beach, FL			
November 6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
6-7			Homestead ARB, FL	
11-14			Ft Bragg, NC	
12-13		NAS Pensacola, FL		
13-14	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMS to verify they have the most current information regarding any airspace restrictions.



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## **NOISE ABATEMENT PROCEDURES COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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## **AEROBATIC PRACTICE AREA Jack Edwards Airport (JKA) Gulf Shores, AL**

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

## **Fayette County (FYE), Somerville, Tennessee**

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01-19 from the surface to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

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## **CONTROLLED FIRING AREA Milan, Tennessee**

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z†, Sat 1530-2230Z† Sun 1230-1700Z†.

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## **Helicopter Activity Mosby Army Heliport, Dahlonga, GA Area**

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864-3367.

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## **NIGHT VISION LIGHTS OUT OPERATIONS North Carolina, South Carolina**

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41'N, Lon 78°30'W; to Lat 34°00'N, Lon 78°30'W; to Lat 34°00'N, Lon 80°00'W; to Lat 36°00'N, Lon 80°30'W; to point of beginning.

Times of use: Sunset to sunrise, daily.

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## **Helicopter Activity Camp Blanding, Starke, Florida Area**

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57'7.84"N; 81°58'47.32"W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon-Sat 1300-0500Z†, 1300-2000Z† Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533-3113/3352.

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## **Cuban Flight Advisory (UNTIL FURTHER NOTICE)**

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

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## **LASER LIGHT DEMONSTRATIONS**

### **Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

### **Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28°22'N, long 81°32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

### **Miami, Florida**

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

### **Miami Beach, Florida**

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46"N/Long 80°08"W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

### **Orlando, Florida**

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24'N, Long 81°27'W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

### **Decatur, Georgia**

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45' 55"N/Long 84° 17' 39"W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

### **Clemson, South Carolina**

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

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**LASER LIGHT EXPERIMENT****Arecibo Observatory, Puerto Rico**

Location: 18°–20'–37"N 66°–45'–11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

**MEMPHIS, TN****MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

**NASHVILLE, TN****NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1 mile of the departure end of parallel runways, due to noise abatement restrictions.

**CHARLOTTE, NC****CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

**AIRSPACE DELEGATED TO MACDILL AFB, FL**

From 1100–2300 UTC (0700–1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to MacDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located 1½ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

**Indianapolis ARTCC****NABB, INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

**HELICOPTER ACTIVITY ORLANDO, FL AREA.**

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

**CAUTION–TETHERED AEROSTAT RADAR SYSTEM (TARS)**

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R-2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

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## SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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## ST. PETERSBURG, FLORIDA

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

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## GEORGIA

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield-Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

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## U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

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## MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

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## CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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## AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT (BCT), FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

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## AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

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## FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

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## CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

## CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

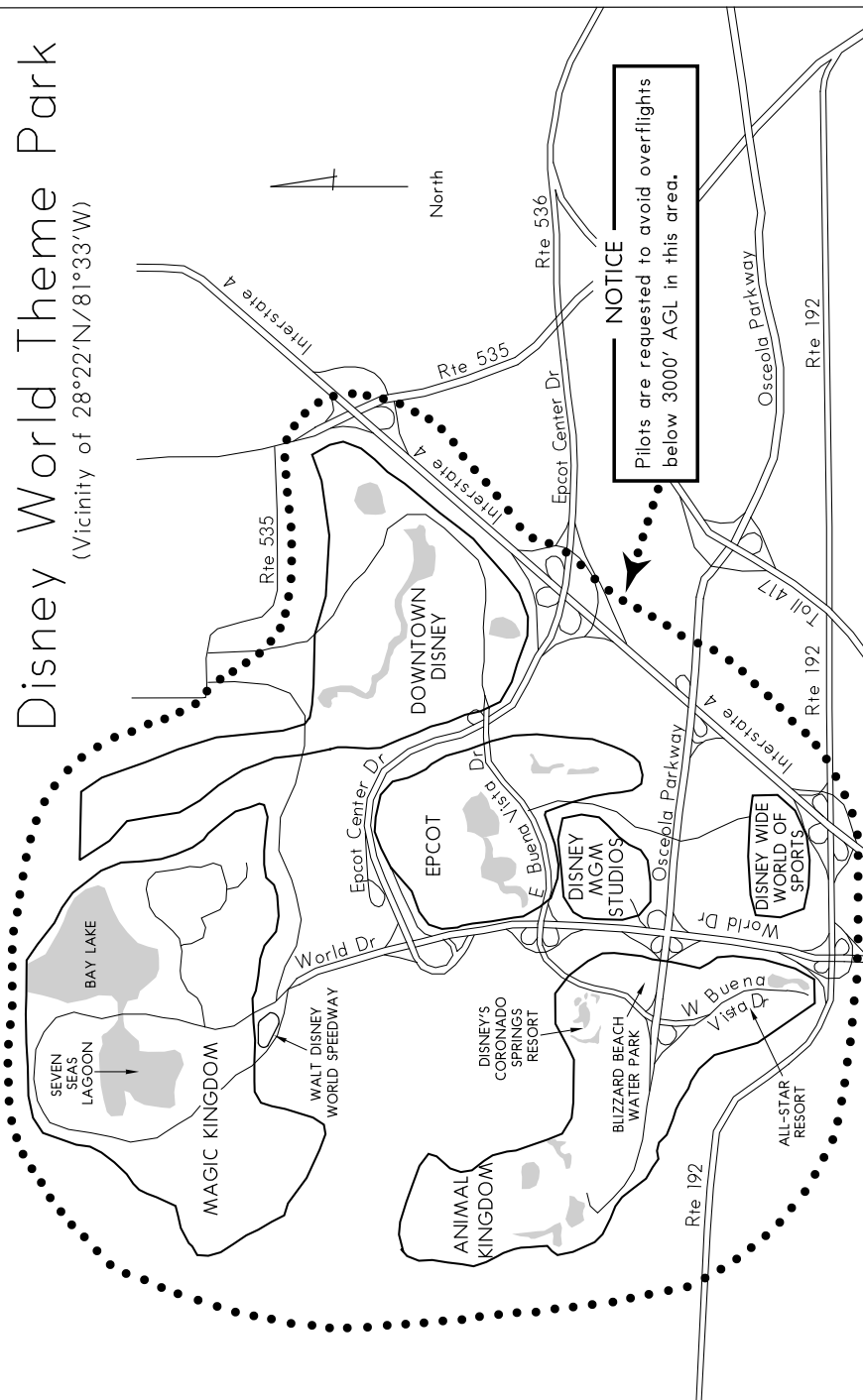
The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ) .....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC) .....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA) .....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	10
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA) .....	22
Boise, ID (BOI) .....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT) .....	36L	Omaha, NE (OMA) .....	14R
Chicago, IL (ORD) .....	10	Ontario, CA (ONT) .....	26L
Cincinnati, OH (CVG) .....	36C	Philadelphia, PA (PHL) .....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX) .....	08
Dallas/Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN) .....	35R	Reno, NV (RNO) .....	16R
Des Moines, IA (DSM) .....	31	Salt Lake City, UT (SLC) .....	34L
Detroit, MI (DTW) .....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	01L	San Francisco, CA (SFO) .....	28R
Great Falls, MT (GTF) .....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	36L
Jacksonville, FL (JAX) .....	07	Tulsa, OK (TUL) .....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX) .....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT) .....	01L
Miami, FL (MIA) .....	08R		

**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

# Disney World Theme Park

(Vicinity of 28°22'N/81°33'W)



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**DISNEY WORLD THEME PARK****NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.

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# Hilton Head Island Airport VFR Arrivals Elevation 19'

**RUNWAY 21:**  
 (1) INTERCEPT LOCALIZER NE OF ISLAND, FLY STRAIGHT IN TO RWY  
 IF NECESSARY TO CIRCLE, FLY OVER AIRPORT TO SILVER ROOF  
 BLDGS THEN TURN LEFT TO DOWNWIND OVER THE WATER  
 NOTE: APPROACHING RWY 21 FROM THE OTHER AREAS, USE THE  
 APPROPRIATE PROCEDURE FOR RWY 3 AND ASSUME LEFT  
 DOWNWIND POSITION OVER WATER



Noise Sensitive  
Areas

3.9 Nautical Miles

2

Bridge

PATTERN ALT:  
 MULTI/JET 1500'  
 SINGLE 1200'  
 LOCALIZER: 111.3 H-HXD  
 TOWER: 118.975  
 GRD/CLNC DEL: 121.1  
 ATIS: 121.4  
 UNICOM: 123.0

3

Water  
Tower

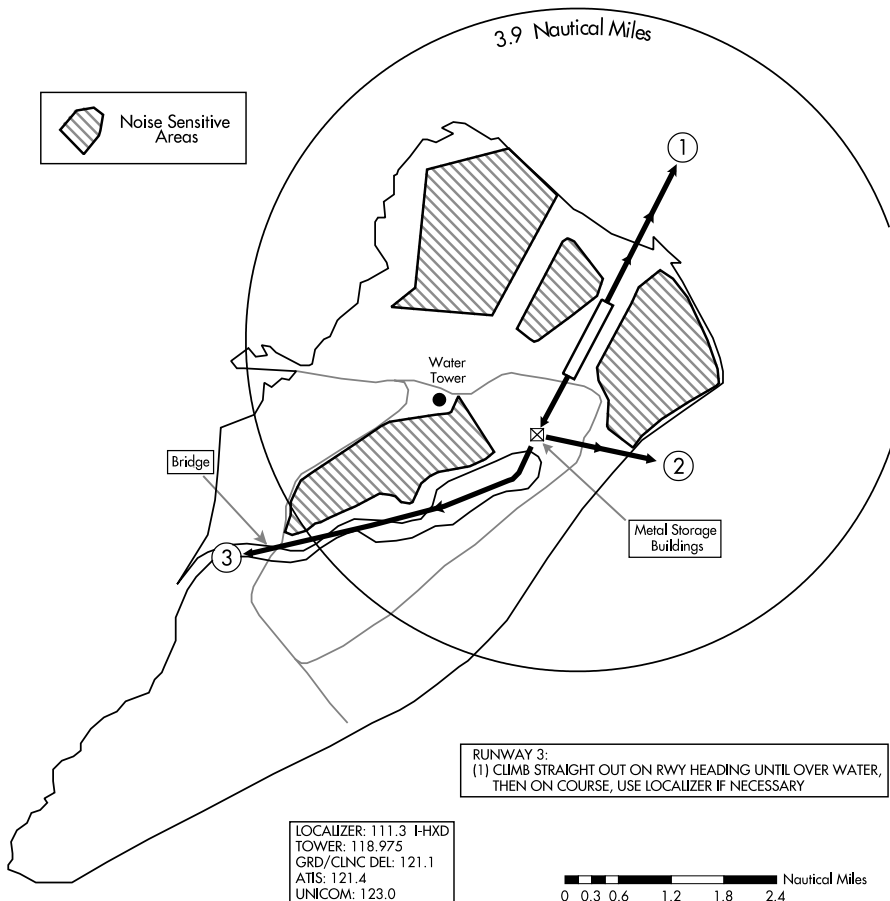
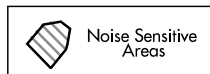
Metal Storage  
Buildings

**RUNWAY 3:**  
 (1) ENTER FROM OFFSHORE ON COURSE FOR A RIGHT DOWNWIND.  
 TURN RIGHT OVER NARROW LAND AREA TOWARDS SILVER  
 ROOFED BLDGS, THEN STRAIGHT IN TO RWY  
 (2) ENTER FROM THE WEST OVER THE BRIDGE, FOLLOW THE POWER  
 LINES/HIGHWAY TOWARD THE SILVER ROOF BLDGS AND THEN  
 LEFT TO STRAIGHT IN TO RWY  
 (3) ENTER BROAD CREEK OVER BRIDGE, STAY OVER CREEK TOWARD  
 SILVER ROOF BLDGS, THEN STRAIGHT IN TO RWY

0 0.5 1 2 3 4 Nautical Miles

# Hilton Head Island Airport VFR Departures Elevation 19'

**RUNWAY 21:**  
FLY RUNWAY HEADING UNTIL OVER THE SILVERROOF BLDGS, THEN:  
(2) TURN LEFT TO PROCEED OVER THE SHORELINE TO DEPART OVER WATER  
(3) CONTINUE OVER BROAD CREEK TO THE BRIDGE BEFORE TURNING ON COURSE



# BOWMAN FIELD

## LOUISVILLE, KY

### TERMINAL AREA GRAPHIC NOTICE

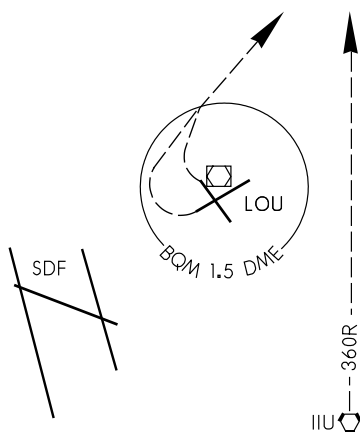
(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 33 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

ATIS  
118.275  
LOUISVILLE APP CON  
132.075  
BOWMAN TOWER★  
119.5  
GND CON  
121.8  
CLNC DEL  
118.9



Remaining within  $1\frac{1}{2}$  miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial.

**WEATHER MINIMUMS:** Ceiling 3000 and visibility 3 miles.

**NOTE:** Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

**HOLLYWOOD/NORTH PERRY (HWO)****HOLLYWOOD, FL**

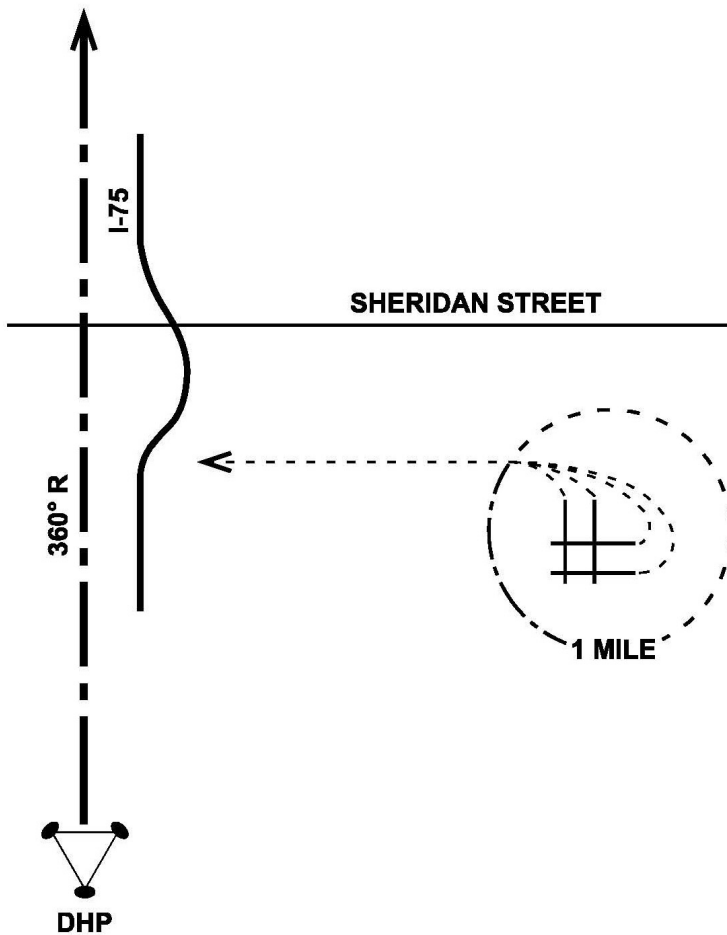
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

**"SHERIDAN DEPARTURE"**

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



ATIS 135.475

MIAMI APPROACH CONTROL 128.6

NORTH PERRY TOWER 132.1

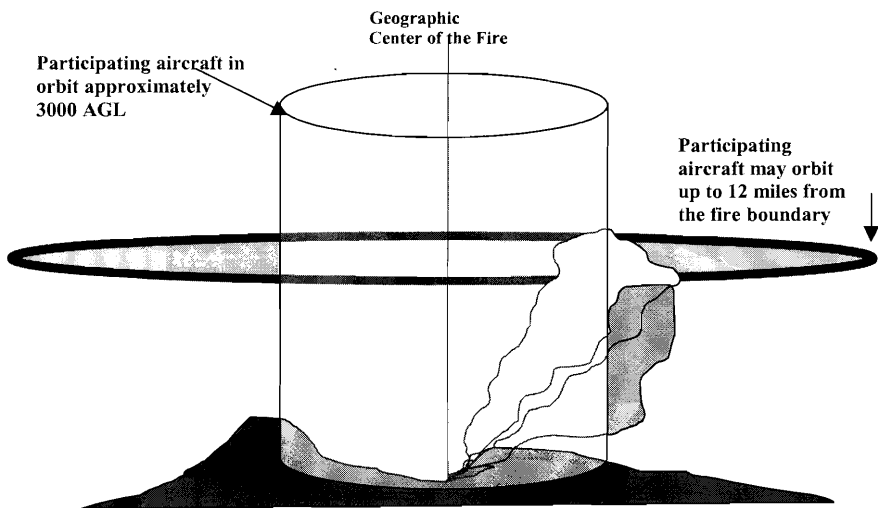
GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I-75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

## FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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## **DESTIN—FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA**

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

— North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

— East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAASafety.gov Knowledge Course at: [http://faasafety.gov/gslac/ALC/course\\_catalog.aspx](http://faasafety.gov/gslac/ALC/course_catalog.aspx).

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## **OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL**

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

**NOTE:** Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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## FSS TELEPHONE NUMBERS

**Flight Service Station (FSS)** facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

**Telephone Information Briefing Service (TIBS)** is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

### NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings ..... 1-800-WX-BRIEF (1-800-992-7433)

### OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) ..... 1-877-4TIBS-WX (1-877-484-2799)

Clearance Delivery Only ..... 1-888-766-8267

Lifeguard Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)

Flights within DC SFRA & FRZ \* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone

# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

**TAF** KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT  
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA  
OVC008CB  
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR  
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

**METAR** KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB  
18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VariaBle</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in <b>TAF</b> <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"I"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>FeeT</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No change</u> )	<b>R28L/2600FT</b>
<b>HZ</b>	Significant present, forecast and recent weather: see table (on back)	<b>TSRA</b>
<b>FEW020</b>	Cloud amount, height and type: <u>SKY</u> <u>Clear</u> 0/8, <u>FEW</u> >0/8-2/8, <u>SCA</u> tered 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OVerCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>Vertical Visibility</u> for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In auto-mated <b>METAR</b> reports only, <u>CLeaR</u> for "clear below 12,000 feet"	<b>OVC010CB</b>
	Temperature: degrees Celsius; first 2 digits, temperature <u>"I"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	<b>18/16</b>
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>A2992</b>



# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<b>WS010/31022KT</b>	In U.S. <b>TAF</b> , non-convective low-level ( $\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"/";</u> 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>  In <b>METAR</b> , <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/</u> dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	<b>RMK</b> <b>SLP045</b> <b>T01820159</b>
<b>FM1930</b>	<u>From</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
<b>TEMPO 2022</b>	<u>TEMPO</u> rary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
<b>PROB40 0407</b>	<u>PROB</u> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
<b>BECMG 1315</b>	<u>BECM</u> ing: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	

**Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.**

## QUALIFIER

### Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

### Descriptor

MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

## WEATHER PHENOMENA

### Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets

UP Unknown precipitation in automated observations

### Obscuration

BR Mist ( $\geq 5/8$ SM)	FG Fog ( $< 5/8$ SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust

### Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

**UNITED STATES DEPARTMENT OF COMMERCE**

**NOAA/PA 96052**

**National Oceanic and Atmospheric Administration—National Weather Service**

## KEY AIR TRAFFIC FACILITIES

## Air Traffic Control System Command Center

Main Number.....703-904-4400

## RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

## AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

## MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

# KEY AIR TRAFFIC FACILITIES

## DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	7:30 a.m.-4:00 p.m.	973-565-5000
Norman Y. Mineta San Jose Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-725-3300	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	571-323-6372
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

### Ⓡ ATLANTA CENTER

H-6-9-10-12, L-18-22-24-25-26-36, A-1

Albemarle - 133.15  
 Anniston - 134.95  
 Athens - **127.5** 127.5 124.45 **120.425**  
 Atlanta A - **135.0** 135.0  
 Augusta - 128.1  
 Birmingham - **128.725** 127.3  
 Chattanooga - **133.175** 132.05 **126.675** **124.875**  
 Columbus - **125.575** 120.45  
 Foothills - **124.375**  
 Gadsden - 133.8  
 Glade Springs - 127.85  
 Greensboro - 128.8 **124.425**  
 Hampton - **127.125** **119.375**  
 Hickory - 134.55 **132.975** 125.15  
 Hinch Mountain - 133.6 **132.675** **125.925**  
 Huntsville - **126.825**  
 Jonesville - **125.025**  
 Macon - 134.5 **126.425** 123.95  
 Millen - 135.55  
 Monroeville - 118.55  
 Montgomery - **134.6** **128.025** **125.875** 120.55  
 Mount Oglethorpe - 134.8 133.1 121.35 **127.05** 127.05  
 Newport - **134.075** 127.55  
 Owing - 135.35 **125.625** **123.725**  
 Sandersville - **124.325**  
 Sugarloaf Mountain - **121.5** 121.5  
 Tri City - 127.85 **126.775** **120.725**  
 Uniontown - 132.25

(KZTL)

### Ⓡ HOUSTON CENTER - 134.35

H-6-7-8-9, L-17-18-19-20-21-22

Arr-Dep US - 135.77 134.95 **133.75** 133.4 **132.65** 132.4 128.3 **127.8** 125.75 120.35  
 Mobile - 127.65 **125.775**

(KZHU)

### Ⓡ INDIANAPOLIS CENTER - 133.425 **132.775** **128.375** 125.55

H-5-9-10-12, L-16-25-26-27-29

124.525 119.55  
 Evansville - **132.525** 128.3  
 Livingston - **134.675** **126.925**  
 London 2 - 126.57 124.625 121.325  
 Lynch - 126.575  
 New Hope - 124.625 121.175  
 Portsmouth - 124.225 **120.275**  
 Tri City - **124.575**  
 Winchester - **128.22** 126.375 **123.775**

(KZID)

### Ⓡ JACKSONVILLE CENTER

H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1

Arr-Dep US-South Atlantic Control N of 31°30' — 135.05 S of 31°30'N 134.85  
 Albany - 134.45 125.75  
 Alma - **135.975** **133.3** 132.3  
 Charleston - **135.05** **133.625** **132.475** 127.95 **124.075**  
 Columbia - **127.875** 124.7  
 Crestview - 134.15 **124.475** 120.2  
 Daytona Beach - 134.0  
 Dothan - 134.3  
 Eglin - 132.1  
 Florence - 134.35 133.45  
 Gainesville - **135.65** 134.4 124.75  
 Glynco - 126.75  
 Jacksonville - **134.85** 126.35  
 Lake City - 125.375  
 Lowell - 135.75 133.325 **125.175**  
 Millen - 132.5  
 Myrtle Beach - **135.05** 128.7

(KZJX)

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Panama City – 119.1  
 Perry Foley – 127.8  
 St. Augustine – **134.575 132.825 127.475 126.35**  
 Savannah – **132.425 126.125** 120.85  
 Tallahassee – 135.325 128.625 **128.075 125.05**  
 Valdosta – 133.7 125.95

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**® MEMPHIS CENTER — 127.975 124.025**
**H-5-6-9, L-15-16-17-18-22-25-26****(KZME)**

Columbus – **134.775 133.125** 127.1  
 Fayetteville – **132.55**  
 Graham – 125.85 **124.275**  
 Greenville – **133.075 124.925**  
 Greenwood – 127.425  
 Harrison – **133.025**  
 Huntsville – 120.8  
 Little Rock – **132.425 125.475**  
 McKellar – 134.65 127.975 **126.45** 124.35  
 Memphis – **135.225 118.625** 133.125  
 Meridian – **128.275**  
 Nashville – 133.85 **124.125 118.875**  
 Nashville/Joelton 132.1  
 Paducah – 133.65  
 Shelbyville – 126.75  
 South Fulton – 128.05 **127.975 122.275**  
 Tupelo – **135.9** 135.9 134.4 **127.375 120.025**  
 Walnut – **135.225 132.375**

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**® MIAMI CENTER**
**H-8, L-21-22-23-24, A-1****(KZMA)**

Avon Park – 134.55 127.2 **126.525**  
 Fort Myers – 134.75 133.275  
 Grand Bahama Island – 134.2  
 Grand Turk – **135.2** 132.3  
 Key West – 133.5 **132.2** 132.2 **124.7** 124.7  
 Melbourne – **135.075 128.65** 124.1 **119.825**  
 Miami – **132.95** 133.85 133.2 133.95 132.4 127.7 **126.325 124.7** 124.7  
 Nassau – **134.8** 125.7  
 Pahokee – **133.55** 132.45  
 Sarasota – **133.9** 132.35 **128.225**  
 Vero Beach – 135.7 132.25 **125.075**  
 West Palm Beach – 135.175 133.4 132.15

**CENTER REMARKS:** All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

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**® SAN JUAN CENTER**
**H-2-3, L-5-6****(ZSU) (MJZS)**

Borinquen – **135.7** 135.7 124.35  
 El Yunque – **134.3** 134.3 **128.65** 128.6 **125.0** 125.0 **118.75** 118.75 **118.15** 118.15  
 Pico Del Este – **134.3** 134.3 **128.65** 128.65 **125.0** 125.0 **118.15** 118.15

**CENTER REMARKS:** All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

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**® WASHINGTON CENTER**
**H-9-10-12, L-24-25-26-29-34-35-36****(KZDC)**

Arr-Dep US – 135.5 **133.82 133.12** 132.55 **128.52** 127.7 **127.42 124.02** 123.85 **118.82**  
 Green Bay – **133.725** 127.75  
 Johnsonville – 135.2 **118.925**  
 Manteo – 124.725  
 New Bern – 135.5 **118.825**  
 Rocky Mount – 118.475 **132.225**  
 Sampson – 135.3  
 Whaleyville – **133.825 128.525 127.425** 123.85  
 Wilmington – 124.025

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

## ANDERSON AFSS

AIKEN RCO 122.45  
 ALLENDALE VOR 116.7T 122.1R  
 ANDERSON RCO 122.2 123.6  
 CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5  
 CHESTERFIELD VOR/DME 108.2T 122.05R  
 COLLIER'S VORTAC 113.9T 122.1R  
 COLUMBIA VORTAC 114.7T 122.1R 122.65  
 FLORENCE VORTAC 115.2T 122.1R 122.6  
 FOOTHILLS VORTAC 113.4T 122.1R  
 FORT MILL VORTAC 112.4T 122.1R  
 GRAND STRAND VORTAC 117.6T 122.1R 123.6  
 GREENWOOD VORTAC 115.5T 122.1R 122.625  
 GREER RCO 122.2 122.65  
 HILTON HEAD ISLAND RCO 122.55  
 SPARTANBURG VORTAC 115.7T 122.1R  
 VANCE VORTAC 110.4T 122.1R

## ANNISTON AFSS

ANNISTON RCO 122.2 123.6  
 BIRMINGHAM RCO 122.2 123.65  
 BROOKLEY VORTAC 112.8T 122.1R  
 CRIMSON VORTAC 117.8T 122.1R  
 DECATUR RCO 122.6  
 DOTHAN RCO 122.2 122.5  
 EUFAULA VORTAC 109.2T 122.1R  
 GADSDEN VOR/DME 112.3T 122.1R  
 HAMILTON RCO 122.3  
 HUNTSVILLE RCO 122.2  
 MOBILE RCO 122.2 123.65  
 MONROEVILLE VORTAC 116.8T 122.1R  
 MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55  
 MUSCLE SHOALS RCO 122.2 122.4  
 SELMA RCO 122.4  
 TALLADEGA VOR/DME 108.8T 122.05R  
 TUSCALOOSA RCO 122.2  
 TUSKEGEE VOR/DME 117.3T 122.1R  
 VULCAN VORTAC 114.4T 122.1R  
 WIREGRASS VORTAC 111.6T 122.1R

## GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45  
 CRESTVIEW RCO 122.0 122.2 122.45  
 CROSS CITY VORTAC 112.0T 122.1R  
 GATORS VORTAC 116.2T 122.1R  
 GREENVILLE VORTAC 109.0T 122.1R  
 LAKE CITY RCO 122.6  
 MARIANNA VORTAC 114.0T 122.1R  
 OCALA VORTAC 113.7T 122.1R  
 PALATKA RCO 122.25  
 PANAMA CITY VORTAC 114.3T 122.1R  
 PENSACOLA RCO 122.2 122.6  
 PERRY RCO 122.45  
 ST AUGUSTINE RCO 122.3  
 SAUFLEY VOR 108.8T 122.1R  
 SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4  
 TAYLOR VORTAC 112.9T 122.1R

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**JACKSON AFSS**

CLARKSVILLE VOR/DME 110.6T 122.1R  
DYERSBURG RCO 122.2 122.45  
GRAHAM VORTAC 111.6T 122.1R 122.25  
JACKS CREEK VOR/DME 109.4T 122.1R  
JACKSON RCO 122.2 **122.65** 127.15  
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

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**LOUISVILLE AFSS**

BOWLING GREEN RCO 122.2 122.4  
CENTRAL CITY VORTAC 109.8T 122.1R  
CINCINNATI VORTAC 117.3T 122.1R  
FALMOUTH VOR/DME 117.0T 122.1R  
FRANKFORT VOR 109.4T 122.1R  
HAZARD VOR/DME 111.2T 122.1R  
LEXINGTON VORTAC 112.6T 122.1R  
LONDON VORTAC 116.1T 122.1R 122.2 122.65  
LOUISVILLE RCO 122.1R 122.2 **122.45**  
MADISON RCO 122.3  
NEW HOPE VOR/DME 110.8T 122.1R  
NEWCOMBE VORTAC 110.4T 122.1R  
OWENSBORO VOR/DME 108.6T 122.1R  
PADUCAH RCO 122.2 122.5  
PIKEVILLE RCO 122.05  
SOMERSET RCO 122.55  
YORK VORTAC 112.8T 122.1R

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**MACON AFSS**

ALBANY RCO 122.6  
 ALMA VORTAC 115.1T 122.1R 123.6  
 ATHENS VORTAC 109.6T 122.1R  
 ATLANTA VORTAC 116.9T 122.1R 122.2 122.6  
 BRUNSWICK VORTAC 109.8T 122.1R 122.2  
 CHOO CHOO VORTAC 115.8T 122.1R  
 COLUMBUS VORTAC 117.1T 122.1R 122.65  
 DANIEL RCO 122.3  
 DUBLIN VORTAC 113.1T 122.1R 122.6  
 GAINESVILLE RCO 122.55  
 HARRIS RCO 122.35  
 LAGRANGE VORTAC 115.6T 122.1R  
 MACON RCO 122.1R 122.2 122.4  
 MOULTRIE VOR/DME 108.8T 122.1R  
 PEACHTREE VOR/DME 116.6T 122.1R  
 ROME RCO 122.3  
 SAVANNAH VORTAC 115.95T 122.1R 123.65  
 STATESBORO RCO 122.6  
 THOMASVILLE RCO 122.55  
 TIFT MYERS RCO 122.35  
 VALDOSTA VOR/DME 114.8T 122.1R 122.2  
 VIENNA VORTAC 116.5T 122.1R  
 WAYCROSS VORTAC 110.2T 122.1R

**MIAMI AFSS** 122.2 122.3 **122.55** 123.65

**MIAMI IFSS** 127.9 126.9 126.7

DADE COLLIER RCO 122.3  
 DAVIE RCO 126.7  
 DOLPHIN VORTAC 113.9T 122.1R  
 FORT MYERS RCO 122.1R 122.2 **122.65**  
 FORT PIERCE RCO 122.55  
 KEY WEST VORTAC 113.5T 122.1R 122.2 **123.65**  
 LA BELLE VORTAC 110.4T 122.1R  
 MARATHON RCO 122.6  
 NAPLES RCO 123.6  
 PAHOKEE VORTAC 115.4T 122.1R 122.35  
 PALM BEACH VORTAC 115.7T 122.1R 122.4  
 VIRGINIA KEY VOR/DME 117.1T 122.1R



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**NASHVILLE AFSS**

BRISTOL RCO 122.2  
CHATTANOOGA RCO 122.2 123.65  
CROSSVILLE RCO 122.2 122.5  
HINCH MOUNTAIN VORTAC 117.6T 122.1R  
HOLSTON MOUNTAIN VORTAC 114.6T 122.1R  
LIVINGSTON VORTAC 108.4T 122.1R  
MCGHEE TYSON RCO 122.2 122.3  
NASHVILLE RCO 114.1T 122.1R 122.2 122.55  
SHELBYVILLE VOR/DME 109.0T 122.1R  
VOLUNTEER VORTAC 116.4T 122.1R

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**RALEIGH AFSS**

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R  
CHARLOTTE RCO 122.4  
COFIELD VORTAC 114.6T 122.1R  
ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2  
FAYETTEVILLE VOR/DME 108.8T 122.1R  
GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65  
HATTERAS RCO 122.3  
HICKORY RCO 122.2 122.6  
KINSTON VORTAC 109.6T 122.15R  
LIBERTY VORTAC 113.0T 122.1R  
NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4  
PITT-GREENVILLE RCO 122.35  
RALEIGH RCO 122.2 122.45 122.65  
ROCKY MOUNT RCO 122.2 122.3  
SANDHILLS VORTAC 111.8T 122.1R  
SNOWBIRD VORTAC 108.8T 122.1R  
SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3  
TAR RIVER VORTAC 117.8T 122.1R  
WILKESBORO RCO 122.4  
WILMINGTON VORTAC 117.0T 122.1R 122.55

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**SAINT PETERSBURG AFSS**

BROOKSVILLE RCO 122.3  
FORT DRUM RCO 122.2  
LAKELAND VORTAC 116.0T 122.1R  
MELBOURNE VOR/DME 110.0T 122.1R 122.6  
ORLANDO VORTAC 112.2T 122.1R 122.2 **122.65** 123.65  
ORMOND BEACH VORTAC 112.6T 122.1R 122.4  
PUNTA GORDA RCO 122.025  
ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6  
SARASOTA VORTAC 115.2T 122.1R  
SEBRING RCO 122.25  
TITUSVILLE RCO 123.6  
VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

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**SAN JUAN AIFSS**

BORINQUEN VORTAC 113.5T 122.1R  
MAYAGUEZ VOR/DME 110.6T 122.1R  
PONCE VOR/DME 109.0T 122.1R  
ST CROIX VOR/DME 108.2T 122.1R  
ST THOMAS VOR/DME 108.6T 123.6R  
SAN JUAN RCO 126.7 123.65 122.2

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## FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

### ALABAMA

Liberty Park Building 1500, Suite 250  
1500 Urban Center Drive  
Vestavia Hills, AL 35242  
Telephone: 205-731-1557

### FLORIDA

Ft. Lauderdale Jet Center  
1050 Lee Wagener Blvd.  
Ft. Lauderdale, FL 33315  
Telephone: 954-635-1300

5950 Hazeltine  
National Drive Suite 500  
Orlando, FL 32822-5023  
Telephone: 407-812-7700  
Fax: 407-812-7710

8600 NW 36th Street  
Miami, FL 33166  
Telephone: 305-716-3400

5601 Mariner St, Suite 310  
Tampa, FL 33609  
Telephone: 813-287-4900  
Fax: 813-639-1551

### GEORGIA

Campus Building  
1701 Columbia Ave. Suite 2-110  
College Park, GA 30337-2748  
Telephone: 404-305-7200  
Fax: 404-305-7215

### KENTUCKY

1930 Bishop Lane  
Waterson Towers, 11th Floor  
Louisville, KY 40218  
Telephone: 502-753-4200

### NORTH CAROLINA

6433 Bryan Blvd.  
Greensboro, NC 27409  
Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233  
Charlotte, NC 28273  
Telephone: 704-319-7020

### PUERTO RICO

525 F.D. Roosevelt Ave.  
La Torre de Plaza, Suite 901  
San Juan, PR 00918  
Telephone: 787-764-2538

### SOUTH CAROLINA

125-B Summer Lake Drive  
West Columbia, SC 29170  
Telephone: 803-765-5931

### TENNESSEE

2 International Plaza Drive, Suite 700  
Nashville, TN 37217  
Telephone: 615-324-1300

2842 Business Park Drive, Bldg G  
Memphis, TN 38118  
Telephone: 901-322-8600

# PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations “pressurized” and “unpressurized” for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.  
Sun..... 1300–2259 local time.  
Mon thru Fri ..... 0701–2259 local time.  
Sat ..... 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

## LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA METRO AREA</b>		
Chicago Midway (MDW) .....	(60–170 incl) V97 NELLO V311 HCH V51 CGT .....	1200–0300
Chicago O'Hare (ORD).....	(60–170 incl) V97 NELLO V311 HCH V51 CGT V7 BEBEE .....	1200–0300
Cincinnati (CVG).....	(80–170 incl) V97 VXV V115 AZQ V339 FLM .....	1200–0300
<b>CINCINNATI METRO AREA (CVG, LUK)</b>		
Detroit/Wayne (DTW) .....	DQN MIZAR–STAR .....	1100–0300
	or (RNAV only) HAGOL (RNAV)–DP DQN MIZAR–STAR .....	1100–0300
Detroit Satellites:		
Ann Arbor (ARB) .....	DQN CRUX–STAR .....	1100–0300
	or (RNAV only) HAGOL (RNAV)–DP DQN CRUX–STAR .....	1100–0300
Pontiac (PTK),	or (RNAV only) HAGOL (RNAV)–DP DQN CRUX–STAR .....	

Terminals	Route	Effective Times (UTC)
Willow Run (YIP) .....	(all others) DQN CRUX-STAR..... or (RNAV only) HAGOL (RNAV)-DP DQN CRUX-STAR .....	
Windsor (CYQG),	or (all others) (RNAV only) HAGOL (RNAV)-DP DQN V272 KLINE VXV VXV064 LYNTN .....	
Young (DET).....	V275 KLINE VWV VWV064 LYNTN..... or (RNAV only) HAGOL (RNAV)-DP DQN V275 KLINE VXV VXV 064 LYNTN .....	
From COVINGTON (CVG) only		
Atlanta (ATL) .....	BLUEGRASS-DP HYK V97 VXV V267 HRS V463 WOMAC .....	1100-0300
Chicago Midway (MDW) .....	V128 VHP BVT V97 CGT .....	1100-0300
Chicago O'Hare (ORD).....	V128 VHP BVT V97 CGT V7 BEBEE .....	1100-0300
Indianapolis (IND).....	V128 VHP .....	1100-0300
Knoxville (TYS).....	(all others) BLUEGRASS-DP HYK V97 .....	
	or (RNAV only) KENLIN (RNAV)-DP HYK V97 .....	
Louisville (SDF) .....	CVG206 IIU055 IIU .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl) (all others) RHOMM-DP YRK V44 JPU V117 WISKE WISKE-STAR.....	1100-0300
	or (60-170) (RNAV only) GIPLE (RNAV)-DP YRK V44 JPU V117 WISKE WISKE-STAR.....	1100-0300
<b>DAYTONA BEACH</b>		
Miami (MIA) .....	(110 and below) V3 MLB V437 PHK V267 BRIKL..	1300-0300
<b>FT LAUDERDALE METRO AREA (FLL, FXE, PMP)</b>		
Cross City (CTY) .....	(at or below 50) DHP V97 LBV V157 LAL V7 .....	1030-0300
	or (60-170) V511 LAL V7 .....	1030-0300
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or (110-170) V159 TBIRD MLB V3.....	1030-0300
Ft. Myers (FMY)(RSW) .....	(at or below 50) DHP V521.....	1030-0300
Ft. Pierce (FPR).....	(at or below 100) V3.....	1030-0300
	or (110-170) V159 TBIRD .....	1030-0300
Gainesville (GNV) .....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or (60-170) V511 LAL V157 .....	1030-0300
Jacksonville (JAX).....	(at or below 90) PBI V3 OMN V51 CRG.....	1030-0300
	or (130-170) ORL V267 CRG .....	1030-0300
	or V159 VRB V3 OMN V51 CRG .....	
Lakeland (LAL).....	(at or below 50) DHP V97 LBV110 V157 .....	1030-0300
	or (60-170) V511.....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3.....	1030-0300
	or (110-170) FLL V159 TBIRD.....	1030-0300
Ocala (OCF).....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or (60-170) V511 LAL V157 .....	1030-0300
Orlando (MCO) .....	(at or below 100) PBI V531 ORL.....	1030-0300
	or (110-170) V159 TBIRD V531 ORL .....	1030-0300

Terminals	Route	Effective Times (UTC)
Sarasota/Bradenton (SRQ) .....	(60–170) LBV V97 ROGAN .....	1030–0300
	or	
	(60–170) SRQ .....	1030–3000
	or	
	(at or below 50) DHP V97 ROGAN.....	1030–0300
	or	
	(60–170) ROGAN .....	1030–0300
Tallahassee (TLH) .....	(at or below 50) DHP V97 LBV V157 LAL V7 SZW .	1030–0300
	or	
	(60–170) V511 LAL V7 SZW .....	1030–0300
Tampa (TPA) .....	(60–170) LBV BRDGE–STAR .....	1030–0300
	or	
	(60–170) BRDGE BRDGE–STAR	1030–0300
	or	
	(at or below 50) DHP V97 PIE .....	1030–0300
	or	
	(60–170, GPS or DME/DME–IRU equipped) DEAKK DEAKK (RNAV)–STAR.....	1030–0300
	or	
	(60–170, GPS or DME/DME–IRU equipped) LBV DEAKK (RNAV)–STAR .....	1030–0300
Vero Beach (VRB).....	(at or below 100) V3.....	1030–0300
	or	
	(110–170) V159 TBIRD .....	1030–0300
<b>FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL.....	1030–0300
Ft. Lauderdale (FLL) .....	(RSW/FMY/PGD–prop/turbo) RSW V599 .....	1030–0300
	or	
	(RSW/FMY/PGD–turbo/jets) FORTL JINGL (RNAV)–STAR.....	1030–0300
	or	
	(APF/MKY prop/turbo) DRCT.....	1030–0300
	or	
	FORTL JINGL (RNAV)– STAR .....	1030–0300
Ft. Pierce (FPR).....	V225 .....	1030–0300
Gainesville (GNV).....	V7 LAL V157 .....	1030–0300
Jacksonville (JAX).....	ORL V267 CRG .....	1030–0300
Lakeland (LAL).....	V7 LAL.....	1030–0300
Melbourne (MLB) .....	V225 VRB .....	1030–0300
Miami (MIA).....	V35 CURVE .....	1030–0300
	or	
	(all others) CYY CYY–STAR .....	1030–0300
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....	1030–0300
Orlando (MCO).....	(Jets) LAL ORL .....	1030–0300
	or	
	(Turbo/Props) ORL .....	1030–0300
	or	
	(Jets) LAL MINEE–STAR.....	1030–0300
	or	
	(Jets) DOWNN MINEE–STAR.....	1030–0300
	or	
	(Turbo/Props) DOWNN MINEE–STAR.....	1030–0300
Ocala (OCF).....	V7 LAL V157 .....	1030–0300
Tallahassee (TLH) .....	V7 SZW.....	1030–0300
Tampa (TPA)	(at or below 100) V35 PIE .....	1030–0300
	or	
	(110–170) RSW BRDGE–STAR .....	1030–0300
	or	
	(GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR.....	1030–0300
Vero Beach (VRB).....	V225 .....	1030–0300

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Terminals		Route	Effective Times (UTC)
<b>GAINESVILLE (GNV)</b>			
Ft. Lauderdale (FLL).....	(100 and below) V157 NEWER.....		0000–2359
Ft. Myers (FMY).....	(100 and below) V157 LAL V521.....		0000–2359
Miami (MIA).....	(100 and below) V157 LBV V529 V35 CURVE .....		0000–2359
Orlando (ORL).....	(100 and below) V157 OCF V159 .....		1100–0400
Sarasota/Bradenton (SRQ).....	(100 and below) V157 LAL .....		0000–2359
Tampa (TPA) .....	(100 and below) V157 OCF V581 DADES .....		0000–2359
<b>JACKSONVILLE METRO AREA (JAX)</b>			
Miami (MIA).....	(100 and below) V3 MLB V437 PHK V267 BRIKL..		1300–0300
Tampa (TPA) .....	(100 and below) OCF V581 DADES.....		0000–2359
	or		
	(100 and below, GPS or DME/DME–IRU equipped) OCF V581 DADES (RNAV)–STAR .....		0000–2359
<b>KEY WEST METRO AREA (NQX)</b>			
Daytona Beach (DAB).....	RSW ORL .....		1030–0300
Ft Myers (RSW) .....	EYW .....		1030–0300
Fort Lauderdale (FLL).....	(props) EYW V157 DHP .....		
	or		
	(jets-all others) EYW DVALL–STAR .....		1030–0300
	or		
	(jets-/E,/G,/R,/J,/L,/Q) EYW CORSO (RNAV)–STAR.....		1030–0300
Melbourne (MLB).....	EYW PHK.....		1030–0300
Miami (MIA).....	(props) EYW V157 .....		
	or		
	(Jets-all others) EYW DVALL–STAR.....		1030–0300
	or		
	(Jets-/E,/G,/R,/J,/L,/Q) EYW CORSO (RNAV)–STAR.....		1030–0300
Orlando (MCO).....	(props) EYW RSW MINEE–STAR .....		
	or		
	(Jets) EYW RSW MINEE–STAR .....		1030–0300
Palm Beach (PBI) .....	EYW PHK.....		1030–0300
Sarasota/Bradenton (SRQ) .....	(at or below 100) EYW RSW V35 MURDO .....		1030–0300
	or		
	(110–170) EYW RSW V7 ROGAN.....		
Tallahassee (TLH) .....	EYW RSW V7 SZW .....		1030–0300
Tampa (TPA).....	(at or below 100) EYW RSW V35 PIE.....		
	or		
	(110–170) EYW RSW V7 BRDGE–STAR .....		1030–0300
	or		
	(110–170, GPS or DME/DME–IRU equipped) EYW V225		
	RSW V7 ROGAN DEAKK (RNAV)–STAR .....		1030–0300
Vero Beach (VRB).....	EYW PHK V51 .....		1030–0300
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>			
Ft Lauderdale (FLL) .....	(Jets only–all others) V7 RSW FORTL–STAR .....		1030–0300
Ft. Myers (FMY).....	V521 .....		1030–0300
Ft Pierce (FPR).....	(at or below 140) V441 DEARY V159 .....		1030–0300
	or		
	(150–170) VRB.....		1030–0300
Key West (EYW) .....	V7 RSW V225 .....		1030–0300
Miami (MIA).....	(100 and below) V157 LBV V529 V35 CURVE .....		
	or		
	(all others) CYY CYY–STAR .....		1030–0300
	or		
	(Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....		
Opa Locka (OPF) .....	(props/turbo) V511 NEWER.....		
	or		
	(Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR.....		
Vero Beach (VRB).....	(at or below 140) V441 DEARY V159 .....		1030–0300
	or		
	(150–170) VRB.....		1030–0300
West Palm Beach (PBI) .....	PHK.....		1030–0300
<b>SE. 23 SEP 2010 to 18 NOV 2010</b>			

Terminals	Route	Effective Times (UTC)
<b>LEXINGTON (LEX)</b>		
Atlanta (ATL) .....	HYK V53 AZQ SOT WHINZ-STAR.....	
<b>LOUISVILLE</b>		
Kansas City (MKC) .....	V4 PXV V190 SGF TYGER-STAR .....	0000-2359
Wichita (ICT).....	V4 PXV V190 SGF V132 CNU V350 .....	0000-2359
<b>MEMPHIS</b>		
Chicago Midway (MDW) .....	SPI MOTIF-STAR .....	0000-2359
Chicago O'Hare (ORD).....	MAW V313 PNT V227 PLANO .....	1100-0300
	or	
	PNT V227 PLANO .....	0000-2359
<b>MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51)</b>		
Cross City (CTY).....	V97 LBV V157 LAL V7 .....	1030-0300
	or	
	LAL .....	1030-0300
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or	
	(110-170) V437 MLB V3 .....	1030-0300
Ft Pierce (FPR).....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51 VRB .....	1030-0300
	or	
	FPR .....	
Gainesville (GNV) .....	V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Jacksonville (JAX).....	(at or below 90) PBI V3 OMN V51 CRG.....	1030-0300
	or	
	(at 110) PHK V437 MLB V3 OMN V51 CRG.....	1030-0300
	or	
	(130-170) V267 CRG .....	1030-0300
Lakeland (LAL).....	V97 LBV V157 LAL .....	1030-0300
	or	
	LAL .....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3.....	1030-0300
	or	
	(120-170) PBI V531 TBIRD .....	1030-0300
New Orleans (MSY) .....	(below FL180) LBV SRQ AM .....	1100-0300
Ocala (OCF) .....	DHP V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Orlando (MCO).....	(at or below 100) PBI V531 ORL.....	
	or	
	(110-170) V267 PHK GOOFY-STAR.....	1030-0300
Overwater Routes to the Northeast .....	PERMT ILM or PERMT DIW .....	
Sarasota/Bradenton (SRQ) .....	V97 ROGAN .....	1030-0300
Tallahassee (TLH) .....	DHP V97 LBV V157 LAL V7 SZW .....	1030-0300
Tampa (TPA).....	V97 LBV BRDGE-STAR.....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) V97 LBV	
	DEAKK .....	1030-0300
Vero Beach (VRB).....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51.....	1030-0300
	or	
	(110-170) VRB.....	1030-0300
<b>NASHVILLE</b>		
Tallahassee (TLH) .....	RQZ TDG TGE RRS.....	1100-2300
<b>ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)</b>		
Ft Lauderdale (FLL) .....	(at or below 100) PHK V267 BRIKL.....	1030-0300
	or	
	(110-170) PHK V267 BRIKL.....	1030-0300
Ft Pierce (FPR).....	V159 VRB .....	1030-0300
Key West (EYW) .....	RSW V225 .....	1030-0300
Miami (MIA).....	(at or below 100) PHK V267 BRIKL.....	1030-0300

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Terminals		Route	Effective Times (UTC)
West Palm Beach (PBI) .....		(props/turbo props) V159 VRB V295 STOOP	
		V492 .....	1030-0300
		or	
		(Jets only) PHK .....	1030-0300
		or	
		(Turbojets-GPS or DME/DME-IRU equipped)	
		DEARY VRB FRWAY (RNAV)-STAR .....	
PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)			
Cross City (CTY) .....		(at or below 140) V531 BAIRN OCF V159 .....	
		or	
		(150-170) LAL V7 .....	1030-0300
Daytona Beach (DAB) .....		V3 SMYRA .....	1030-0300
		or	
		V531 TBIRD MLB V3 SMYRA .....	1030-0300
Ft. Myers (RSW) .....		RSW .....	1030-0300
Jacksonville (JAX) .....		(at or below 110) V3 VRB V51 CRG .....	
		or	
		(130-170) ORL V267 CRG .....	1030-0300
Lakeland (LAL) .....		LBV V157 .....	1030-0300
		or	
		(SUA Dep) LAL .....	
Melbourne (MLB) .....		(at or below 100) V3 .....	
		or	
		(120-170) PBI V531 TBIRD .....	1030-0300
Ocala (OCF) .....		(at or below 140) V531 BAIRN OCF .....	
		or	
		(150-170) LAL OCF .....	
Orlando (ORL/MCO) .....		V531 BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....		A699 STIFF AR7 .....	
Sarasota/Bradenton (SRQ) .....		LBV V97 ROGAN .....	
		or	
		(SUA Dep) SRQ .....	
Tallahassee (TLH) .....		(at or below 140) V531 BAIRN OCF V159 CTY V7	
		SZW .....	
		or	
		(150-170) LAL V7 SZW .....	1030-0300
Tampa (TPA) .....		LBV BRDGE-STAR .....	
		or	
		BRDGE BRDGE-STAR .....	1030-0300
		or	
		(GPS or DME/DME-IRU equipped) DEAKK DEAKK	
		(RNAV)-STAR .....	1000-0300
		or	
		(GPS or DME/DME-IRU equipped) LBV DEAKK	
		(RNAV)-STAR .....	1000-0300
Vero Beach (VRB) .....		(at or below 100) PBI V3 .....	
		or	
		(110-170) V531 TBIRD .....	1030-0300
From STUART (SUA) only:			
Cross City (CTY) .....		(at or below 120) BAIRN OCF V159 .....	
		or	
		(130-170) LAL V7 .....	1030-0300
Lakeland (LAL) .....		TBIRD V531 ODDEL V441 LAL .....	1030-0300
Ocala (OCF) .....		TBIRD V531 BAIRN .....	1030-0300
Tallahassee (TLH) .....		(at or below 120) BAIRN OCF V159 CTY V7 SZW ..	
		or	
		(130-170) LAL V7 SZW .....	1030-0300
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Terminals	Route	Effective Times (UTC)
<b>SARASOTA/BRADENTON AREA (SRQ)</b>		
Ft Lauderdale (FLL) .....	(at or below 100, below 210 kts) RSW V599 NEWER .....	
	or (110–170), below 210 kts) LBV V157 NEWER .....	
	or (at or above 210 kts) V579 RSW V7 KUBIC .....	
	or (all others) RSW FORTL–STAR .....	1030–0300
	or (/E, /G, /R, /J, /L, /Q) RXXAN JINGL (RNAV)–STAR .....	
Ft Myers (RSW) .....	V579 RSW .....	1030–0300
Orlando (MCO) .....	LAL MINEE–STAR .....	1030–0300
West Palm Beach (PBI) .....	SABEE JOOOE WLACE (RNAV)–STAR .....	
<b>TALLAHASSEE AND CROSS CITY AREA</b>		
Ft Myers (FMY) .....	(120 and below) CTY V7 LAL V521 .....	1100–0300
Miami (MIA) .....	(170 and below) LAL V157 LBV V529 V35 CURVE	1300–0300
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Ft Lauderdale (FLL) .....	(Jets only) RSW V7 KUBIC FLL .....	
	or (all others) RSW FORTL–STAR .....	
	or (Turboprop–all others) RSW FORTL–STAR .....	1030–0300
	or (props only) V509 HALLR V511 NEWER .....	1030–0300
	or (GPS or DME/DME–IRU equipped) SABEE RXXAN JINGL (RNAV)–STAR .....	
Ft Myers (RSW) .....	PIE V579 RSW .....	
	or (Turbojets–GPS or DME/DME–IRU equipped) SRQ TYNEE (RNAV)–STAR .....	
Ft Pierce (FPR) .....	(at or below 140) V441 DEARY V159 .....	
	or (150–170) VRB .....	1030–0300
Key West (EYW) .....	PIE V35 RSW V225 .....	
	or V579 RSW V225 .....	1030–0300
Miami (MIA) .....	RSW V35 CURVE .....	1030–0300
	or (all others) CYY CYY–STAR .....	1030–0300
	or (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....	
Opa Locka (OPF) .....	(props) V509 HALLR V511 NEWER .....	
	or (turbo) RSW V7 KUBIC .....	
	or (turbo) V509 HALLR V511 NEWER .....	1030–0300
	or (jets) RSW CYY CYY–STAR .....	1030–0300
	or (Turbojets–GPS or DME/DME–IRU equipped) RSW CYY SSCOT (RNAV)–STAR .....	
Orlando (MCO) .....	LAL MINEE–STAR (Max alt. 12,000 ft) .....	1030–0300
Vero Beach (VRB) .....	(at or below 140) V441 DEARY V159 .....	
	or (150–170) VRB .....	1030–0300
West Palm Beach (PBI) .....	RSW PHK .....	
	or (Turbojets–GPS or DME/DME–IRU equipped) SABEE JOOOE WLACE (RNAV)–STAR .....	

## SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

### NORTHEAST

Traffic entering ZTL airspace V97 and East to V66 file:

.....	VXV AWSON-STAR.....
.....	SOT ODF AWSON-STAR.....
.....	SUG ODF AWSON-STAR .....
.....	SPA ODF AWSON-STAR.....
.....	ELW ODF AWSON-STAR .....

### SOUTHEAST

Traffic entering ZTL airspace South of V66 to East of a line from ATL to MGR file:

.....	IRQ TRBOW-STAR .....
.....	DBN TRBOW-STAR .....
.....	MCN TRBOW-STAR.....
.....	DBN JRAMS (RNAV)-STAR .....
.....	IRQ TRBOW-STAR .....
.....	MCN JRAMS (RNAV)-STAR.....

Traffic originating South of a line from ATL to RDU to East of J89 file:

.....	DBN JRAMS (RNAV)-STAR .....
.....	DBN TRBOW-STAR .....
.....	IRQ JRAMS (RNAV)-STAR .....
.....	IRQ TRBOW-STAR .....

### SOUTHWEST

Traffic entering ZTL airspace South of V278 to West of a line from ATL to MGR file:

.....	LDK V66 LGC DIFFI-STAR.....
.....	MVC MGM LGC DIFFI-STAR .....
.....	CEW MGM LGC DIFFI-STAR .....
.....	SZW PZD CSG LGC DIFFI-STAR .....
.....	V56 MGM LGC DIFFI-STAR .....

### NORTHWEST

Traffic entering ZTL airspace on V278 and North to West of V97 file:

.....	IGB V278 VUZ V417 MAYES V325 DALAS .....
.....	HAB V159 VUZ V417 MAYES V325 DALAS.....
.....	MSL V325 DALAS.....
.....	DCU V541 GAD V325 DALAS .....
.....	RQZ BUNNI-STAR.....
.....	BNA V5 GQO BUNNI-STAR.....
.....	SYI V67 GQO BUNNI-STAR .....
.....	BWG V243 GQO BUNNI-STAR .....
.....	LVT V51 HCH V333 GQO BUNNI-STAR .....
.....	HYK V333 GQO BUNNI-STAR .....

## SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low Altitude IFR routes for traffic overflying the Charlotte Metro Area:		
.....	PSK V37 CAE (90 and 100 only) .....	1100-0300
.....	SPA V54 LOCAS (90 and 100 only).....	1100-0300
.....	GRD V66 SDZ (30-100 only) .....	1100-0300

## HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA (ATL)</b>		
Austin (AUS) .....	WEONE J239 MEI AEX LFK.....	1100-0300
Baltimore (BWI).....	EAONE SPA J14 RIC OTT-STAR .....	1100-0300
Boca Raton (BCT).....	(GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)-STAR .....	1100-0300
Boston (BOS).....	EATWO GRD J209 RDU J207 FKN J79 JFK ORW-STAR.....	1100-0300

Terminals	Route	Effective Times (UTC)
Chicago Midway (MDW) .....	(/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK (RNAV)–STAR .....	1100–0300
	or (Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT .....	1100–0300
Chicago O'Hare (ORD) .....	(non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX–STAR .....	1100–0300
	or (/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)–STAR .....	1100–0300
	or J89 IIU MZZ OXI .....	
Cincinnati (CVG) .....	NOTWO J43 VXV J91 HNN HARDU–STAR .....	1100–0300
Charlotte (CLT) .....	GRD ADENA (RNAV)–STAR .....	1100–0300
Cleveland (CLE) .....	SUMMT (RNAV)–DP VXV J91 BULEY J91 HNN VTT KEATN–STAR .....	
Columbus (CMH) .....	NOTWO J43 VXV J91 HNN BREMN–STAR .....	1100–0300
Denver (DEN) .....	WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE DANDD–STAR .....	1100–0300
Detroit/Wayne (DTW) .....	SUMMT (RNAV)–DP VXV J91 HNN WEEDA–STAR ...	
Eglin AFB (KVPS) .....	NOVSS (RNAV) DP SARGE RRS CEW .....	
Flint (FNT) .....	NUGGT (RNAV)–DP RAFTN FLM J43 ROD JXN V353 .....	
Fort Lauderdale (FLL) .....	SOONE J89 HITTR PIE FORTL–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) BRAVS (RNAV)–DP WALET OTK JINGL (RNAV)–STAR .....	1100–0300
Fort Myers (FMY and RSW) .....	(Turbojets–GPS or DME/DME–IRU equipped) THRSR (RNAV)–DP LUCKK SZW TYNEE (RNAV)–STAR .....	1100–0300
Gainesville (GNV) .....	SOONE J89 OTK .....	1100–0300
Houston (HOU) .....	(DME/DME–IRU or GPS–equipped) JAMMR AEX ROKIT (RNAV)–STAR .....	
	or (Non–advanced NAV only) JAMMR MEI AEX DAS–STAR .....	
Houston (IAH) .....	(Turbojets–DME/DME–IRU or GPS–equipped) JAMMR AEX TXMEX (RNAV)–STAR .....	
Kennedy (JFK) .....	EATWO GRD J209 ORF J121 SIE CAMRN–STAR ....	1100–0300
La Guardia (LGA) .....	EAONE AHN J208 HPW J191 PXT KORRY–STAR ....	1100–0300
Louisville (SDF) .....	NOONE HCH DARBY–STAR .....	1100–0300
Marco Island (MKY) .....	SOTWO J43 SZW PIKKR (RNAV)–STAR .....	
	or SOONE J89 J75 TEPEE ZEILR–STAR .....	1100–0300
Miami (MIA) .....	(all others) SOTWO SZW J43 PIE CYY–STAR .....	
	or (Turbojets–GPS or DME/DME equipped) THRSR (RNAV)–DP LUCKK SZW SSCOT (RNAV)–STAR .....	1100–0300
Minneapolis (MSP) .....	(all others) NOONE J89 IIU J89 BAE EAU–STAR ....	1100–0300
	or (RNAV only) COKEM (RNAV) DP CARPT BNA ENL IOW ALO KASPR–STAR .....	1100–0300
Naples (APF) .....	SOTWO J43 SZW PIKKR (RNAV)–STAR .....	
Newark (EWR) .....	GSO J14 J51 FAK DYLIN–STAR .....	1100–0200
	or (GPS or DME/DME–IRU equipped) GSO J14 J51 FAK PHLBO (RNAV)–STAR .....	1100–0200
Orlando (MCO) .....	SOONE J89 OTK LEESE–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) SOONE J89 OTK PIGLT (RNAV)–STAR .....	1100–0400
Orlando (ORL) .....	(GPS or DME/DME–IRU equipped) SOONE J89 OTK PIGLT (RNAV)–STAR .....	1100–0400
Panama City–Bay Co Intl (PFN) .....	NOVSS (RNAV) DP SARGE .....	
Pensacola Rgnl (PNS) .....	NOVSS (RNAV) DP SARGE .....	

410		PREFERRED IFR ROUTES	
Terminals	Route	Effective Times (UTC)	
Philadelphia (PHL) .....	EAONE SPA J14 J51 FAK DPNT-STAR .....	1100-0300	
Raleigh-Durham (RDU).....	EATWO IRQ CAE BUZZY-STAR .....	1100-0300	
Sarasota/Bradenton (SRQ).....	J43 SZW CLAMP-STAR .....	1100-0300	
Tampa (TPA) .....	SOTWO J43 SZW DARBS-STAR .....	1100-0300	
	or		
	(GPS or DME/DME-IRU equipped) SOTWO J43		
	SZW FOXXX (RNAV)-STAR .....	1100-0300	
Teterboro (TEB).....	(Advanced Nav Only) EAONE SPA J14 J51 FAK		
	JAIKE-STAR.....	1100-0300	
	or		
	(Non-Advanced Nav Only) EAONE SPA J14 J51		
	FAK BRV AML J227 J49 J70 LVZ LVZ-STAR .....	1100-0300	
Washington Natl (DCA).....	(GPS or DME/DME-IRU equipped) EAONE SPA		
	J14 RIC OJAAY (RNAV)-STAR .....	1100-0300	
	or		
	EAONE SPA J14 RIC IRONS-STAR.....		
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)		
	BRAVS (RNAV)-DP WALET OTK WLACE		
	(RNAV)-STAR.....	1100-0300	
Windsor Locks (BDL) .....	EATWO GRD J209 RDU J207 FKN J79 JFK DPK		
	DPK-STAR.....	1100-0300	
AUGUSTA (AGS)			
Kennedy (JFK) .....	GRD J209 ORF J121 SIE CAMRN-STAR .....		
BIRMINGHAM (BHM)			
Baltimore (BWI).....	ATL J14 RIC OTT-STAR .....		
	or		
	(GPS or DME/DME-IRU equipped) ATL J14 RIC		
	RAVNN (RNAV)-STAR .....		
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) VUZ IIU OKK FISSK		
	(RNAV)-STAR.....	1100-0300	
	or		
	(non-advanced RNAV only) VUZ IIU OKK V285		
	CLEFT OXI CGT.....	1100-0300	
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR.....	0000-2359	
Detroit/Wayne (DTW).....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR ....		
	or		
	BNA CCT VHP FWA MIZAR-STAR.....		
Houston (HOU).....	(DME/DME-IRU or GPS-equipped) MEI AEX ROKIT		
	(RNAV)-STAR .....		
	(Non-advanced NAV only) MEI AEX DAS-STAR		
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) MEI		
	AEX TXMEX (RNAV)-STAR .....		
	or		
	(Non-advanced NAV only) MEI AEX DAS-STAR		
Washington Dulles (IAD).....	ATL J14 J51 FAK COATT-STAR .....		
Washington Natl (DCA).....	ATL J14 RIC IRONS-STAR.....		
	or		
	(GPS or DME/DME-IRU equipped) ATL J014		
	RIC OJAAY (RNAV)-STAR .....		
CHARLESTON (CHS)			
Baltimore (BWI).....	J79 TYI J40 RIC OTT-STAR .....	1100-0400	
	or		
	(GPS or DME/DME-IRU equipped) J79 TYI J40		
	RIC RAVNN (RNAV)-STAR .....	1100-0400	
Detroit/Wayne (DTW).....	BKW GEMNI-STAR.....		
Houston (HOU).....	(GPS or DME/DME-IRU equipped) MGM J37 SJI		
	COLUMBIA (RNAV)-STAR .....		
	or		
	(Non-advanced NAV only) MGM J37 SJI AEX		
	DAS-STAR.....		
Houston (IAH) .....	(DME/DME-IRU or GPS-equipped) MGM J37 SJI		
	WOLDE (RNAV)-STAR.....		
	or		
	(Non-advanced NAV only) MGM J37 SJI		
	GILCO-STAR .....		
Philadelphia (PHL) .....	J121 SWL SWL034 RADDS VCN-STAR .....	1100-0400	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD).....	J55 FLO J207 RDU FAK COATT-STAR..... or (GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR .....	
<b>CHARLOTTE (CLT)</b>		
Baltimore (BWI).....	MERIL RDU J52 RIC OTT-STAR..... or (GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR .....	1100-0300 1100-0300
Boston (BOS).....	MERIL RDU J207 FKN J79 JFK ORW-STAR.....	
Chicago Midway (MDW) .....	SADIE HNN FWA GOSHEN-STAR..... or SADIE HVQ APE J178 FWA GOSHEN-STAR.....	1100-0300 1100-0300
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or (non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
Cincinnati (CVG).....	(RNAV only) HNV JAKIE (RNAV)-STAR..... or (all others) HNV HARDU-STAR .....	
Denver (DEN) .....	HARAY SPA SPA270 VVX125 VVX BNA FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR .....	1100-0300
Detroit/Wayne (DTW).....	HUGO-DP ROBAY BKW GEMNI-STAR .....	
Houston (HOU).....	(DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STAR..... or (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR .....	
	or (DME/DME-IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)-STAR .....	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR..... or (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR .....	
Kennedy (JFK).....	MERIL RDU J209 ORF J121 SIE CAMRN-STAR .....	
La Guardia (LGA).....	MERIL RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0300
Louisville (LOU).....	SADIE LOZ V310 IU .....	1100-0300
Newark (EWR) .....	RDU FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR .....	1100-0300 1100-0300
Norfolk (ORF) .....	MERIL RDU TYI CVI V1 DRONE .....	1100-0300
Philadelphia (PHL) .....	MERIL RDU248 J51 FAK DPNT-STAR .....	1100-0400
Richmond (RIC) .....	MERIL RDU LVL.....	
Teterboro (TEB).....	(Advanced Nav Only) MERIL RDU FAK JAIKE-STAR .....	1100-0300
	or (Non-Advanced Nav Only) MERIL RDU FAK BRV AML J227 J49 J70 LVZ LVZ-STAR .....	1100-0300
Washington Dulles (IAD).....	MERIL RDU248 J51 FAK COATT-STAR.....	1100-0300
Washington Natl (DCA).....	MERIL RDU J52 RIC IRONS-STAR..... or (GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR .....	
Windsor Locks (BDL) .....	MERIL RDU J207 FKN J79 JFK DPK DPK-STAR.....	
<b>CHATTANOOGA (CHA)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or (non-advanced RNAV only) GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
<b>CINCINNATI (CVG)</b>		
Albany (ALB) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB.....	

Terminals	Route	Effective Times (UTC)
Allentown (ABE) .....	(RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY JST HAR.....	
Atlanta (ATL) .....	(RNAV only) BLUEGRASS—DP BWG ERLIN (RNAV)—STAR..... or (all others) BLUEGRASS—DP BWG ROME—STAR.....	
Baltimore (BWI).....	V128 YRK HVQ J8 CSN OTT—STAR..... or (GPS or DME/DME—IRU equipped) V128 YRK HVQ J8 CSN RAVNN (RNAV)—STAR .....	
Birmingham (BHM) .....	BLUEGRASS—DP TRFWA LVT SYI VUZ .....	
Boca Raton (BCT).....	(GPS or DME/DME—IRU equipped) BLUEGRASS—DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)—STAR..... or (GPS or DME/DME—IRU equipped) BLUEGRASS—DP HYK VXV J43 ATL J89 OTK PRRIE (RNAV)—STAR.	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)—DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER—STAR.....	
Chicago O'Hare (ORD).....	(Advanced NAV only) JBNCH (RNAV)—DP MIE MZZR ROYKO (RNAV)—STAR .....	
	or (Non-Advance Nav only) HAGOL (RNAV)—DP DQN FWA KNOX—STAR..... or HAGOL (RNAV)—DP DQN FWA WATSN (RNAV)—STAR .....	
Dallas/Ft. Worth (DFW) .....	IIU PXV J131 LIT BYP .....	
Fort Lauderdale (FLL) .....	(GPS or DME/DME—IRU equipped) SILK (RNAV)—DP TRFWA NOTWO OTK JINGL (RNAV)—STAR..... or (all others) BLUEGRASS—DP HYK VXV J43 ATL J89 HITTR J75 FORTL—STAR .....	
Fort Myers (FMY) .....	(Turbojets, DME/DME—IRU or GPS) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR..... or (all others) BLUEGRASS—DP HKY VXV J43 SZW PIE JOSFF—STAR.....	
Fort Myers (RSW) .....	(GPS or DME/DME—IRU equipped) KENLN (RNAV)—DP HYK VXV J43 SZW TYNEE (RNAV)—STAR.....	1100–0300
	or (all others) BLUEGRASS—DP HYK VXV J43 SZW PIE JOSFF—STAR.....	
Harrisburg (MDT).....	(RNAV only) ROCKT (RNAV)—DP AHTIY JST HAR.....	
Houston (HOU).....	(GPS or DME/DME—IRU equipped) CHCLL (RNAV)—DP BWG J6 LIT J180 SWB ROKIT (RNAV)—STAR..... or (Non-advanced NAV only) BLUEGRASS—DP BWG J6 LIT J180 SWB DAS—STAR .....	
Houston (IAH).....	(Turbojets—GPS or DME/DME—IRU equipped) LIT CHCLL (RNAV)—DP BWG J6 LIT J180 SWB TXMEX (RNAV)—STAR .....	
	or (all others) LIT J180 SWB BLUEGRASS—DP BWG J6 DAS—STAR .....	
Jackson (JAN).....	(all others) BLUEGRASS—DP TRFWA LVT SYI VUZ JAN..... or (RNAV only) SILKS (RNAV)—DP TRFWA LVT SYI VUZ JAN.....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)—DP AHTIY PSB MILTON—STAR.....	1000–1800

Terminals	Route	Effective Times (UTC)
Manchester (MHT).....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB ALB EEN .....	
Marco Island (MKY) .....	(all others) BLUEGRASS–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
	or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
Miami (MIA).....	(Turbojets–GPS or DME/DME–IRU equipped) SILKS (RNAV)–DP TRFWA NOTWO SZW SSCOT (RNAV)–STAR .....	
	or (all others) BLUEGRASS–DP HYK VXV J43 ATL SZW J43 PIE CYY–STAR .....	
Mobile (MOB) .....	(all others) BLUEGRASS–DP TRFWA LVT SYI VUZ SJI .....	
	or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ SJI .....	
Naples (APF).....	HYK VXV J43 SZW PIKKR (RNAV)–STAR .....	
Newark (EWR) .....	ROD J29 J584 SLT FQM–STAR .....	
Newburgh (SWF).....	(RNAV only) ROCKT (RNAV)–DP ROCKT CADRE AHTIY PSB J49 HNK DNY V483 FILPS .....	
New Orleans (MSY) .....	(all others) BLUEGRASS–DP TRFWA LVT SYI VUZ J22 MEI RYTHM–STAR .....	
	or (RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ J22 MEI RHYTHM–STAR .....	
Orlando Executive (ORL).....	(all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)–STAR .....	1100–0400
Orlando Intl (MCO) .....	(all others) BLUEGRASS–DP HYK VXV J99 IRQ J85 AMG LEESE–STAR .....	1100–0300
	or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)–STAR .....	1100–0400
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)–DP AHTIY JST BUNTS–STAR .....	
Phoenix (PHX) .....	BLUEGRASS–DP IIU PXV J78C IRW J74C CNX ZUN BUNTR .....	
	or BLUEGRASS–DP IIU PXV J78C ZUN BUNTR .....	
	or CHCLL–DP IIU PXV J78C ZUN EAGUL .....	
	or CHCLL–DP IIU PXV J78C IRW J74C CNX ZUN EAGUL .....	
Portland (PWM).....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 ALB ENE .....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK TEDDY–STAR .....	
Sarasota/Bradenton (SRQ).....	(all others) BLUEGRASS–DP HYK VXV J43 SZW CLAMP–STAR .....	
	or (RNAV only) KENLN (RNAV)–DP HYK VXV J43 SZW CLAMP–STAR .....	
Tampa (TPA) .....	HYK VXV J43 SZW DARBS–STAR .....	
	or (GPS or DME/DME–IRU equipped) KENLN (RNAV)–DP HYK VXV J43 SZW FOXXX (RNAV)–STAR .....	

Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD).....	(all others) RHOMM-DP HVQ ROYIL-STAR ..... or (RNAV only) GIPLE (RNAV)-DP HVQ SHANON (RNAV)-STAR.....	
Washington Natl (DCA).....	V128 YRK HVQ WZRRD-STAR..... or V128 YRK HVQ ELDEE (RNAV)-STAR.....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) SILKS RNAV-DP TRFWA NOTWO OTK WLACE (RNAV-STAR)..... or (GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE (RNAV-STAR).....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE ANTIY PSB LVZ.....	
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB RKA SWEDE SWEDE-STAR.....	
<b>DAYTONA BEACH (DAB)</b>		
Charlotte (CLT).....	CRG J51 SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) CRG J51 SAV HUSTN (RNAV)-STAR .....	
<b>FORT LAUDERDALE METRO AREA (FLL, FXE, PMP)</b>		
Albany (ALB).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130.....	
Atlanta (ATL) .....	ORL J81 CHESN SINCA-STAR .....	1000-0300
	or (RNAV only) ORL J81 CHESN CANUK (RNAV) -STAR .....	1000-0300
Baltimore (BWI) .....	(at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC OTT-STAR .....	1000-0300
	or (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC OTT-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OTT-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) (at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC RAVNN (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) (at or above 330) J113 CRG J151 SAV J55 CHS J165 RIC RAVNN (RNAV)-STAR .....	1000-0300
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1000-0300
Bedford (BED).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	



PREFERRED IFR ROUTES		415
Terminals	Route	Effective Times (UTC)
Boston (BOS) .....	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1000-0300
	or (at or below 310) ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
Bridgeport (BDR) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	(at or below 310) ORL J53 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330-Turbojets-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
	or (at or below 310-Turbojets-GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1000-0300
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	1000-0300
Cincinnati (CVG) .....	(all others) CTY J91 VXV HARDU-STAR .....	1000-0300
Cleveland (CLE) .....	or (RNAV) only) CTY J91 VXV JAKIE (RNAV)-STAR ....	
	J113 LRG J53 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR .....	1000-0300
Columbus (CMH) .....	J20 ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1000-0300
Cross City (CTY) .....	J85 LLAKE CTY .....	1030-0300
Dallas/Fort Worth (DFW) .....	or CTY .....	
	LAL J73 SZW J2 CEW J50 AEX CQY .....	1000-0300
Danbury (DXR) .....	or SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	1000-0300
	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Daytona Beach (DAB) .....	J20 LLNCH MLB V3 .....	1030-0300
Denver (DEN) .....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	1030-0300
	or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	1030-0300
	J113 CRG J53 SPA HNN WEEDA-STAR .....	
Detroit/Wayne (DTW) .....		
Detroit Satellites:		
Ann Arbor (ARB) .....	ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX- STAR .....	

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PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Pontiac (PTK), Windsor (CYQG) .....	ORL J81 IRQ J85 DJB LLEE0-STAR .....	
Willow Run (YIP) .....	ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR .....	1000-0300
Young (DET).....	ORL J81 IRQ J85 DJB LLEE0-STAR.....	1000-0300
East Hampton (HTO).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 .....	
Farmingdale (FRG).....	(Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Gainesville (GNV).....	J85 LLAKE LAL GNV or LAL GNV .....	1030-0300
Groton/New London (GON).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Hartford (HFD) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1.....	
Houston (IAH).....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR.....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 SJI GILCO-STAR.....	1000-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR.....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR .....	1000-0300
Islip (ISP).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (CRG) .....	ORL J53.....	1030-0300
Kennedy (JFK).....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1000-0300
	or (at or below 310) ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or below 310) ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
Lawrence (LWM) .....	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN.....	
Melbourne (MLB) .....	J113 LLNCH MLB .....	1030-0300
Minneapolis (MSP).....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	

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Terminals	Route	Effective Times (UTC)
Nashville (BNA).....	CTY J91 ATL GQO VOLLS-STAR.....	1000-0300
Newark (EWR).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109 FAK DYLIN-STAR.....	1000-0300
	or (at or below 310) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR.....	1000-0300
	or (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped-at or below 310) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New Orleans (MSY) .....	SRQ Q100 REDFN Q105 HRV.....	1000-0300
	or LAL J73 SZW J2 .....	1000-0300
Ocala (OCF).....	J85 LLAKE LAL .....	1030-0300
	or LAL .....	1030-0300
Orlando (MCO) .....	J113 LLNCH GOOFY-STAR.....	1030-0300
Overwater Routes to the Northeast.....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW .....	1030-0300
Overwater Routes to the Northwest .....	LBV J616 .....	1030-0300
	or LBV J616 SRQ Q100 REDFN Q105 HRV J58 .....	1030-0300
Philadelphia (PHL).....	J113 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs CEDAR LAKE-STAR.....	1000-0300
	or (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR .....	1000-0300
Pittsburgh (PIT).....	(at or below 310) ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Poughkeepsie (POU).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR.....	
Raleigh-Durham (RDU) .....	(at or below 310) ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR.....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300
	or (Water-Turbojets) ZAPPA PERMT AR16 ILM BRADE-STAR.....	1000-0300
St Louis (STL).....	THNDR CTY J151 VISQA QBALL-STAR.....	
	or (/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	LBV J43 ROGAN .....	1030-0300
	or ROGAN .....	1030-0300

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Terminals	Route	Effective Times (UTC)
Springfield/Chicopee (CEF) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Tallahassee (TLH) .....	J85 LLAKE LAL SZW .....	1030-0300
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J85 THNDR LBV BRDGE-STAR .....	1030-0300
	or	
	BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J85 THNDR LBV DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109 BUF YOUTH-STAR .....	
Vero Beach (VRB).....	J113 ARKES VRB .....	1030-0300
Washington Dulles (IAD) .....	(at or below 310) ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(at or below 310-GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	(at or above 330-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV J207 RDU FAK BARIN-STAR.....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(Water) ZAPPA PERMT AR16 ILM J109 FAK COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	(at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR.....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR.....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC IRONS-STAR.....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or below 310) ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	1000-0300
Westfield (BAF) .....	(Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Westhampton Beach (FOK).....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
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Terminals	Route	Effective Times (UTC)
Wilmington (ILM) .....	(Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR..	
Worcester (ORH) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>FORT MYERS METRO AREA</b>		
<b>(RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL .....	1030-0300
Gainesville (GNV) .....	LAL .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 SJI GILCO-STAR .....	1000-0300
Jacksonville (CRG) .....	ORL J53 .....	1030-0300
Miami (MIA) .....	(all others) CYY CYY-STAR .....	1030-0300
	or	
	(/E, /G, /R, /J, /L, /Q) CYY DEEDS (RNAV)-STAR .....	1030-0300
Ocala (OCF) .....	LAL .....	1030-0300
Orlando (MCO) .....	LAL MINEE-STAR .....	1030-0300
	or	
	DOWNN MINEE-STAR .....	1030-0300
	or	
	LAL .....	1030-0300
	or	
	(Turbojets) ORL .....	1030-0300
	or	
	(Turbojets) DOWNN MINEE-STAR .....	1030-0300
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA) .....	RSW BRDGE-STAR .....	1030-0300
	or	
	V7 ROGAN J43 PIE .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR .....	1030-0300
Westbound destinations .....	SRQ Q100 LEV J86 .....	
	or	
	BAGGS Q102 LEV J86 .....	
	or	
	SRQ 100 REDFN Q105 HRV J58 .....	
<b>From PAGE FLD (FMY) only:</b>		
Cincinnati (CVG) .....	(RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR or	
	(all others) LAL CTY J91 ATL VXV HARDU-STAR....	
Cleveland Metro (CLE) .....	LAL CTY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	LAL CTY J91 HNN BREMN-STAR .....	
Detroit/Wayne (DTW) .....	LAL CTY J91 VXV J43 FLM DQN MIZAR-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEEO-STAR .....	
La Guardia (LGA) .....	ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT KORRY-STAR .....	1100-0300

420	PREFERRED IFR ROUTES		Effective Times (UTC)
Terminals	Route		
Miami (MIA).....	(Turbojets—GPS or DME/DME—IRU equipped) CYC SSCOT (RNAV)—STAR .....		
Newark (EWR) .....	ORL J53 CRG J51 FAK DYLIN—STAR .....		1100—0400
	or (GPS or DME/DME—IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)—STAR .....		1100—0400
Washington Natl (DCA).....	ORL J53 CRG J51 SAV J55 CHS J165 RIC IRON—STAR .....		1000—0300
<b>From SW FLORIDA INTL (RSW) only:</b>			
Atlanta (ATL).....	RSW LAL J73 SZW LGC—STAR .....		1000—0300
	or (RNAV only) RSW LAL J73 SZW HONIE (RNAV)—STAR .....		1000—0300
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)—STAR .....		1000—0300
	or (non—advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....		1000—0300
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)—STAR .....		1000—0300
	or (non—advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX—STAR .....		1000—0300
Cleveland (CLE).....	RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN—STAR .....		
Columbus (CMH) .....	RSW LAL J73 J119 TAY J85 HVQ HNN BREM—STAR .....		1000—0300
Dallas/Ft. Worth (DFW) .....	RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY ..		
	or RSW LAL J73 SZW J2 CEW J50 AEX CQY .....		1000—0300
Denver (DEN) .....	RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL—STAR .....		
	or RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD—STAR .....		
Detroit/Wayne (DTW) .....	JOCKS ORL J53 SPA HNN WEEDA—STAR .....		
Detroit Satellites:			
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUX—STAR .....		
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEE—STAR .....		
Indianapolis (IND) .....	RSW LAL CTY J91 ATL J89 IIU DECEE—STAR .....		
Louisville (SDF) .....	RSW LAL CTY J91 ATL HCH DARBY—STAR .....		
Miami (MIA).....	(Turbojets—GPS or DME/DME—IRU equipped) CYC SSCOT (RNAV)—STAR .....		
Minneapolis (MSP) .....	RSW LAL CTY J91 ATL J89 BAE EAU—STAR .....		1000—0300
Nashville (BNA) .....	RSW LAL CTY J91 ATL GQO VOLLS—STAR .....		
Pittsburgh (PIT) .....	RSW ORL J53 CRG J51 CAE PSK EKN IHD NESTO—STAR .....		1000—0300
Raleigh—Durham (RDU).....	RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE—STAR .....		
St Louis (STL) .....	LAL J73 SZW J41 VUZ STL .....		1100—0300
Washington Dulles (IAD).....	RSW ORL J53 CRG J51 SAV J207 RDU FAK COAT—STAR .....		1000—0300
	or (GPS or DME/DME—IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN—STAR .....		1000—0300
Washington Natl (DCA) .....	RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRON—STAR .....		1000—0300
	or (GPS or DME/DME—IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)—STAR .....		1000—0300

Terminals	Route	Effective Times (UTC)
<b>GREENSBORO (GSO)</b>		
Chicago Midway (MDW) .....	PSK HNN FWA GOSHEN-STAR..... or PSK HVQ APE J178 FWA GOSHEN-STAR.....	1100-0300 1100-0300
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ ROYKO (RNAV)-STAR or (non-advanced RNAV only) BOTTM FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300 1100-0300 1100-0300
Cincinnati (LUK) .....	PSK HVQ FLM .....	0700-2300
Detroit/Wayne (DTW).....	BOTTM BKW GEMNI-STAR.....	
La Guardia (LGA).....	J14 PXT KORRY-STAR.....	
Louisville (SDF).....	VXV J99 GHATS EWO IJU .....	0700-2300
Newark (EWR) .....	J14 J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) J14 J51 FAK PHLBO (RNAV)-STAR .....	
<b>GREER (GSP)</b>		
Detroit/Wayne (DTW).....	SPA HMV HNN WEEDA-STAR .....	
<b>HUNTSVILLE (HSV)</b>		
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR.....	0000-2359
Detroit/Wayne (DTW).....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR .... or BNA CCT VHP FWA MIZAR-STAR.....	
<b>JACKSONVILLE METRO AREA (JAX)</b>		
Baltimore (BWI).....	J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Charlotte (CLT).....	J53 IRQ UNARM-STAR .....	
	or J51 SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) J51 SAV HUSTN (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53 IRQ ADENA (RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR.....	0000-2359
	or (Non-advanced RNAV only) SAV CAE HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	NOWAY J53 SPA HNN WEEDA-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) TAY J2 SJI COLUMBIA (RNAV)-STAR .....	
	or (Non-advanced NAV only) TAY J2 CEW J50 AEX DAS-STAR.....	
Houston (IAH).....	(GPS or DME/DME-IRU equipped) TAY J2 SJI WOLDE (RNAV)-STAR or (Non-advanced NAV only) TAY J2 SJI GILCO-STAR.....	
La Guardia (LGA).....	J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR.....	1100-0400
Newark (EWR) .....	CRG J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) CRG J51 FAK PHLBO (RNAV)-STAR .....	
Philadelphia (PHL) .....	J51 SAV J55 CHS J121 SWL SWL034 RADD VCN-STAR.....	1100-0400

422		PREFERRED IFR ROUTES	
Terminals		Route	Effective Times (UTC)
Tampa (TPA) .....	TAY LZARD-STAR .....	or (GPS or DME/DME-IRU equipped) TAY DADES (RNAV)-STAR .....	1100-0400
Washington Dulles (IAD).....	SAV CHS J165 J109 FAK COATT-STAR .....	or (GPS or DME/DME-IRU equipped) SAV J207 RDU FAK BARIN-STAR .....	
Washington Natl (DCA).....	J51 SAV J55 CHS J165 RIC IRONS-STAR .....	or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1100-0400
<b>KEY WEST METRO AREA (NQX)</b>			
Daytona Beach (DAB).....	RSW ORL .....		1030-0300
Fort Lauderdale (FLL) .....	(all others) EYW DVALL-STAR .....	or (/E, /G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR .....	1030-0300
Fort Myers (RSW) .....			1030-0300
Melbourne (MLB).....	PHK.....		1030-0300
Miami (MIA) .....	(all others) EYW DVALL-STAR .....	or (/E, G, /R, /J, /L, /Q) EYW CORSO (RNAV)-STAR .	1030-0300
Orlando (MCO) .....	RSW MINEE-STAR .....		1030-0300
Palm Beach (PBI) .....	PHK.....		1030-0300
Sarasota/Bradenton (SRQ).....	RSW V7 ROGAN .....		1030-0300
Tallahassee (TLH) .....	RSW LAL .....	or (at or above FL360) RSW TEPEE.....	1030-0300
Tampa (TPA) .....	RSW BRDGE-STAR .....	or (GPS or DME/DME-IRU equipped) RSW DEAKK (RNAV)-STAR .....	1000-0300
Vero Beach (VRB) .....	PHK.....		1030-0300
<b>KNOXVILLE (TYS)</b>			
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO (RNAV)-STAR .....	or (non-advanced RNAV only) VXV HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Cleveland Metro (CLE) .....	VXV J91 BULEY J91 HNN TVT KEATN-STAR .....		0000-2359
Detroit/Wayne (DTW).....	VXV J91 HNN WEEDA-STAR .....		
La Guardia (LGA) .....	BKW J42 GVE KORRY-STAR.....		
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>			
Fort Lauderdale (FLL).....	(Jets only-all others) RSW FORTL-STAR .....		1030-0300
Key West Intl (EYW).....	RSW J41 .....		
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) CYV SSCOT (RNAV)-STAR .....		
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) WLACE (RANV)-STAR .....		1030-0300
<b>LEXINGTON (LEX)</b>			
Atlanta (ATL) .....	(RNAV only) AZQ SOT FLCON (RNAV)-STAR .....		
Cleveland (CLE) .....	CVG ABERZ-STAR .....		
<b>LOUISVILLE METRO AREA (LOU, SDF)</b>			
From BOWMAN FIELD (LOU) only			
Dallas/Ft Worth (DFW) .....	PXV J131 LIT BYP .....		
Phoenix (PHX) .....	FAM J78 ABQ J18.....	or FAM J78 IRW J74 SJN J18.....	



Terminals	Route	Effective Times (UTC)
From LOUISVILLE INTL (SDF) only		
Atlanta (ATL) .....	MYS BWG ROME-STAR .....	
	or	
	(RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR	
Cleveland Metro (CLE) .....	CVG ZABER-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SWB ROKIT	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) SWB	
	TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
<b>MEMPHIS (MEM)</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN RAVNN (RNAV)-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
	FKN J79 JFK ORW-STAR .....	
	or	
	J118 SPA SPA100 J209 RDU J207 FKN J79 JFK	
	ORW-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J29 PXV SARGO (RNAV)-STAR .....	
	or	
	(all others) J29 PXV MOSEY-STAR .....	
Cleveland (CLE) .....	PXV ZABER-STAR .....	
Denver (DEN) .....	RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	J29 PXV VHP FWA MIZAR-STAR .....	
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Kennedy (JFK) .....	J118 SPA SPA100 J209 ORF J121 SIE	
	CAMRN-STAR .....	
La Guardia (LGA) .....	J42 GVE KORRY-STAR .....	
Louisville (SDF) .....	BNA BNA037 BARRY EWO .....	
	or	
	Q29 SIDAE CHERI CHERI-STAR .....	
Minneapolis (MSP) .....	J35 STL IOW ALO KASPR-STAR .....	1300-0300
Newark (EWR) .....	J42 GVE DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 GVE	
	PHLBO (RNAV)-STAR .....	
Orlando (ORL/MCO) .....	MGM SZW J43 PIE LAL .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MGM SZW J43	
	PIE COSTR (RNAV)-STAR .....	1100-0400
	or	
	J41 MGM S2W J43 PIE LAL .....	
Philadelphia (PHL) .....	J42 GVE DPNT-STAR .....	
Pittsburgh (PIT) .....	J29 PXV IIU HNN WISKE-STAR .....	
Sarasota/Bradenton (SRQ) .....	MGM SZW CLAMP-STAR .....	
Tampa (TPA) .....	MGM SZW DARBS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MEM SZW	
	FOXX (RNAV)-STAR .....	1100-0400

Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD).....	J42 BKW ROYIL–STAR.....	1100–1830
	or	
	PXV IIU J8 HVQ SHNON (RNAV)–STAR .....	1830–2230
	or	
Washington Natl (DCA).....	J42 BKW SHNON (RNAV)–STAR .....	2230–0300
	or	
	PXV IIU J8 HVQ ROYIL–STAR .....	1830–2230
	J42 BKW WZRRD–STAR.....	
West Palm Beach (PBI) .....	(GPS or DME/DME–IRU equipped) J42 BKW	
	ELDEE (RNAV)–STAR.....	
Windsor Locks (BDL) .....	MGM SZW WLACE (RNAV)–STAR.....	
	J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
	FKN J79 JFK DPK DPK–STAR .....	
<b>MIAMI METRO AREA</b>		
<b>(MIA, HWO, OPF, TMB, HST, X51)</b>		
Albany (ALB).....	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
	V487 CANAN V130 .....	
Atlanta (ATL) .....	J81 CHESN SINCA–STAR.....	1000–0300
	or	
	(RNAV only) J81 CHESN CANUK (RNAV)–STAR .....	1000–0300
Baltimore (BWI) .....	J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC	
	OTT–STAR .....	1000–0300
	or	
	(Water–Turbojets) VALLY PERMT AR16 ILM J40	
	RIC OTT–STAR .....	1000–0300
	or	
	(GPS or DME/DME–IRU equipped) J53 CRG J51	
	SAV J55 CHS J79 TYI J40 RIC RAVNN	
	(RNAV)–STAR.....	1000–0300
	or	
	(GPS or DME/DME–IRU equipped) VALLEY PERMT	
	AR16 ILM J40 RIC RAVNN (RNAV)–STAR.....	1000–0300
Bedford (BED).....	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM–STAR .....	
	or	
	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM–STAR .....	
Beverly (BVY).....	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM–STAR .....	
	or	
	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM–STAR .....	
Boston (BOS) .....	J53 CRG J51 SAV J55 CHS J79 JFK ORW–STAR ...	1000–0300
	or	
	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK ORW–STAR .....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
	FISSK (RNAV)–STAR.....	1000–0300
	or	
	(non–advanced RNAV only) CTY J91 ATL J89 IIU	
	OKK V285 CLEFT OXI CGT .....	1000–0300
Chicago O’Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT	
	GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	
	(RNAV)–STAR.....	1000–0300
	or	
	(non–advanced RNAV only) LAL CTY J91 ATL	
	CADIT GLAZR HOPAP VOSTK HEVAN MZZ	
	MZZ344/33 OXI KNOX–STAR.....	1000–0300

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG).....	(RNAV only) CTY J91 VXV JAKIE (RNAV)–STAR .....	
	or	
	(all others) CTY J91 VXV HARDU–STAR.....	1000–0300
Columbus (CMH).....	J81 IRQ J53 SPA J85 HVQ HNN BREMN–STAR .....	
Cross City (CTY).....	LAL CTY .....	1030–0300
Dallas/Fort Worth (DFW) .....	J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY .	1000–0300
	or	
	LAL J73 SZW J2 CEW J50 AEX CQY.....	1000–0300
Danbury (DXR) .....	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
	RICED–STAR.....	
Daytona Beach (DAB)	J53 HEDLY MLB V3 or MLB V3.....	1030–0300
Denver (DEN).....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE	
	DANDD–STAR .....	
Detroit/Wayne (DTW).....	J53 SPA HNN WEEDA–STAR.....	
Detroit Satellites:		
Ann Arbor (ARB), .....	J81 IRQ J99 VXV J43 FLM DQN CRUXX–STAR.....	
Detroit (DET),		
Pontiac (PTK),		
Windsor (CYQG)		
Willow Run (YIP)		
Ann Arbor (ARB) .....	J81 IRQ J85 DJB LLEEO–STAR .....	
Fort Pierce (FPR).....	J53 HEDLY or FPR .....	1030–0300
Farmingdale (FRG).....	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE CAMRN–STAR .....	
Gainesville (GNV).....	Direct .....	1030–0300
Hampton (HTO).....	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 .....	
Hartford (HFD) .....	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD V1.....	
Houston Intcntl (IAH) .....	(DME/DME–IRU or GPS–equipped) LAL J73 SZW	
	J2 SJI WOLDE (RNAV)–STAR .....	1000–0300
	or	
	(Non–advanced NAV only) LAL J73 SZW J2 SJI	
	GILCO–STAR .....	1000–0300
	or	
	J616 SRQ Q100 LEV WOLDE (RNAV)–STAR.....	1000–0300
Houston Hobby (HOU).....	(DME/DME–IRU or GPS–equipped) LAL J73 SZW	
	J2 SJI COLUMBIA (RNAV)–STAR.....	1000–0300
	or	
	(GPS or DME/DME–IRU equipped) J616 SRQ	
	Q100 LEV COLUMBIA (RNAV)–STAR .....	1000–0300
	or	
	(Non–advanced NAV only) LAL J73 SZW J2 CEW	
	J50 AEX DAS–STAR .....	1000–0300
Indianapolis (IND) .....	LAL CTY J91 ATL J89 IIU DECEE–STAR .....	1000–0300
Islip (ISP).....	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (JAX).....	J53 .....	1030–0300
Kennedy (JFK).....	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE CAMRN–STAR .....	1000–0300
	or	
	J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN–STAR .....	1000–0300
La Guardia (LGA).....	(Water) VALLY PERMT AR16 ILM J40 TYI HPW	
	J191 PXT KORRY–STAR.....	1000–0300
	or	
	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT	
	KORRY–STAR.....	1000–0300
Lawrence (LWM) .....	(Water–Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM–STAR .....	
	or	
	(Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM–STAR .....	

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PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN.....	
Melbourne (MLB) .....	J53 HEDLY or DRCT.....	1030-0300
Minneapolis (MSP).....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL).....	VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA).....	CTY J91 ATL GQO VOLLS-STAR .....	1000-0300
Newark (EWR).....	(Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR .....	
	or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR.....	1000-0300
	or (GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED.....	
New London/Groton (GON) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
New Orleans (MSY) .....	LAL J73 SZW J2 .....	1000-0300
	or (Water) J616 SRQ Q100 REDFN Q105 HRV .....	1000-0300
Ocala (OCF).....	J73 LAL or DRCT .....	1030-0300
Orlando (MCO).....	J53 PHK GOOFY-STAR .....	1030-0300
	or (PHK GOOFY-STAR .....	
Overwater Routes to the Northeast .....	(Water-Turbojets) VALLY PERMT AR16 ILM.....	
	or (Water-Turbojets) VALLY WOLFO AR18 DIW .....	
Overwater Routes to the Northwest .....	J616 SRQ Q100 LEV J86 .....	1030-0300
	or J616 SRQ Q100 REDFN Q105 HRV J58.....	1030-0300
Philadelphia (PHL).....	J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR.....	1000-0300
	or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR .....	1000-0300
Pittsburgh (PIT).....	J53 CRG J51 CAE PSK EKN IHD NESTO-STAR.....	1000-0300
Port Columbus Intl (CMH).....	BNA IIU GAIL (RNAV)-STAR .....	
Poughkeepsie (POU).....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR.....	
Raleigh-Durham (RDU) .....	(Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR .....	1000-0300
	or J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300
St Louis (STL).....	WINCO CTY J151 VISQA QBALL-STAR .....	1000-0300
	or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	J616 .....	1030-0300

Terminals	Route	Effective Times (UTC)
Tallahassee (TLH) .....	J73 .....	
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J43 BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J43 DEAKK	
	DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) VALLY PERMT AR16 ILM J109	
	BUF YOUTH-STAR .....	
Vero Beach (VRB) .....	DRCT .....	1030-0300
	or	
	J53 HEDLY .....	
Washington Dulles (IAD) .....	J53 CRG J51 SAV J207 RDU FAK COATT-STAR ....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	or	
	(Water) VALLEY PERMT AR16 ILM J109 FAK	
	COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) VALLY	
	PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	(Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC	
	IRONS-STAR .....	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM J40	
	RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) VALLY PERMT ILM J40 RIC OJAAY	
	(RNAV)-STAR .....	1000-0300
Westhampton (FOK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE BOUNO-STAR ....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) VALLY PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SYB J79 JFK DPK MAD HFD .....	
<b>MOBILE (MOB)</b>		
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) SJI COLUMBIA	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
Houston (IAH)	(DME/DME-IRU or GPS-equipped) SJI WOLDE	
	(RNAV)-STAR	
	or	
	(Non-advanced NAV only) SJI GILCO-STAR .....	
<b>MYRTLE BEACH (MYR)</b>		
Detroit/ Wayne (DTW) .....	BKW GEMNI-STAR .....	
<b>NASHVILLE</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN OTT-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	

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PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Boston (BOS).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK ORW-STAR .....	
Chicago/Midway (MDW) .....	(/E/G/R/J/L/Q only) IIU OKK FISSK (RNAV)-STAR.....	0000-2359
	or (non-advanced RNAV only) IIU OKK V285 CLEFT OXI CGT .....	0000-2359
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO (RNAV)-STAR.....	0000-2359
	or (non-advanced RNAV only) IIU HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	0000-2359
	or IIU MZZ OXI KNOX-STAR .....	
Cincinnati (CVG).....	BWG V49 ABB V47 CVG .....	
Cleveland (CLE) .....	IIU ZABER-STAR.....	
Columbus (CMH) .....	LVT V493 YRK YRK035 APE168 NIKLS .....	
Denver (DEN) .....	FAM J112 BUM J110 GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW).....	(RNAV only) IMPEL VHP FWA MIZAR-STAR .....	
	or CCT VHP FWA MIZAR-STAR.....	
Fort Lauderdale (FLL) .....	(all others) J39 MGM SZW J41 PIE FORTL-STAR ..	
Fort Myers (FMY, RSW).....	(Turbojets-GPS or DME/DME-IRU equipped) J39 MGM J41 SZW SSCOT (RNAV)-STAR .....	1100-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Houston (IAH).....	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR .....	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR.....	
Indianapolis (IND) .....	J39 IIU DECEE-STAR .....	
Kennedy (JFK).....	J46 VXV SPA SPA100 J209 ORF J121 SIE CAMRN-STAR .....	
La Guardia (LGA) .....	J42 GVE KORRY-STAR .....	
Miami (MIA).....	(all others) J39 MGM SZW J41 PIE CY-STAR.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J39 MGM SZW SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	IIU J89 BAE EAU-STAR.....	
Newark (EWR) .....	SPA J14 J51 FAK DYLIN-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Orlando (MCO, ORL) .....	J39 MGM SZW J43 PIE LAL .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J39 MGM SZW J43 PIE COSTR (RNAV)-STAR.....	1100-0400
Philadelphia (PHL) .....	J42 OTT DPNT-STAR.....	
Pittsburgh (PIT) .....	IIU HNN WISKE-STAR .....	
St. Louis (STL) .....	QBALL-STAR .....	
Toronto (CYYZ).....	J39 ROD J43 CRL J586 YXU V98 YWT V216 .....	
Washington Dulles (IAD).....	J42 BKW ROYIL-STAR.....	
	or J42 BKW SHNON (RNAV)-STAR .....	
Washington Natl (DCA).....	J42 BKW WZRRD-STAR.....	
	or (GPS or DME/DME-IRU equipped) J42 BKW ELDEE (RNAV)-STAR.....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) MGM SZW WLACE (RNAV)-STAR.....	

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Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR .....	
<b>ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)</b>		
Baltimore (BWI) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Detroit/Wayne (DTW) .....	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR .....	
Fort Pierce (FPR) .....	VRB.....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR.....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR.....	1000-0300
	or (DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX GILCO-STAR.....	1000-0300
Key West (EYW) .....	RSW J41 .....	1030-0300
Overwater Routes to the Northeast .....	(Water-Turbojets) MLB LENDS AR16 ILM .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW .....	
Wilmington (ILM) .....	(Water-Turbojets) MLB LENDS AR16 .....	
From ORLANDO EXECUTIVE (ORL) only		
Albany (ALB) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL).....	J53 CRG DBN SINCA-STAR.....	
	or (RNAV only) J53 CRG DBN CANUK RNAV-STAR.....	
Baltimore (BWI).....	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	1100-0400
	or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
Bedford (BED).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR.....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR.....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Bridgeport (BDR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT).....	J53 CRG J51 SAV J207 FLO CTF-STAR.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR.....	

Terminals	Route	Effective Times (UTC)
	or (all others) J53 CRG J45 ATL J43 VXV	
Cleveland (CLE).....	HARDU-STAR .....	
Columbus (CMH) .....	J53 SPA J85 TVT040 KEATN KEATN-STAR .....	
Dallas/Ft. Worth (DFW) .....	J53 SPA J85 HVQ HNN BREMN-STAR .....	
Danbury (DXR) .....	PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY . (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
Denver (DEN) .....	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	VXV J91 HNN WEEDA-STAR .....	
Detroit Satellites: Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	J53 CRG J45 ATL J91 VXV J43 FLM DQN CRUXX-STAR .....	1100-0400
	or	
East Hampton (HTO).....	J53 IRQ J85 DJB LLEEO-STAR .....	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Farmingdale (FRG).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Hartford (HFD) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	J53 CRG J45 ATL J89 IUU DECEE-STAR .....	
Islip (ISP) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	0700-0000
	or	
La Guardia (LGA) .....	J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1100-0300
	or	
Lawrence (LWM) .....	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR.....	1100-0300
	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR.....	
	or	
Louisville (SDF).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Manchester (MHT).....	CTY J91 ATL HCH DARBY-STAR .....	
	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1100-0400
Montreal (CYUL).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR.....	
Nantucket (ACK).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA) .....	CTY J91 ATL VOLLS-STAR .....	1100-0400
Newark (EWR) .....	(GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR.....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Newburgh (SWF).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London (GON) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	



Terminals	Route	Effective Times (UTC)
Philadelphia (PHL) .....	(Water-Turbjets) J53 CRG J55 CHS J121 SWL SWL034 RADD5 VCN-STAR .....	1100-0400
Pittsburgh (PIT) .....	CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1100-0400
Poughkeepsie (POU) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Springfield (CEF) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
St. Louis (STL) .....	CTY SZW J41 VUZ J151 VISQA QBALL-STAR .....	1100-0400
Toronto (CYYZ) .....	(Water-Turbjets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Natl (DCA) .....	(Water-Turbjets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
	or (Water-Turbjets) MLB LENDS AR16 ILM J40 RIC IRON5-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) MLB LEND5 AR16 ILM J109 FAK BARLIN -STAR .....	
	or (Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR .....	
Westfield (BAF) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Westhampton Beach (FOK) .....	(Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or (Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Windsor Locks (BDL) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
From ORLANDO INTL (MCO) only		
Atlanta (ATL) .....	MCOY-DP AMG SINCA-STAR .....	1100-0400
	or (RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR .....	1100-0400
Baltimore (BWI) .....	MCOY-DP SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or (Water-Turbjets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	
Bedford (BED) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY)	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbjets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1100-0300
	or MCOY-DP SAV J55 CHS J79 JFK ORW-STAR .....	1100-0300
Bridgeport (BDR) .....	(Water-Turbjets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	

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Terminals	Route	Effective Times (UTC)
Charlotte (CLT).....	MCOY-DP SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR.....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1100-0400
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0400
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0400
	or (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1100-0400
Cincinnati (CVG).....	(RNAV only) MCCOY-DP AMG J45 ATL J43 VXV JAKIE (RNAV)-STAR .....	
	or (all others) MCOY-DP AMG J45 ATL J43 VXV HARDU-STAR .....	1100-0400
Columbus (CMH) .....	MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1100-0400
Danbury (DXR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
Detroit/Wayne (DTW).....	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Detriot (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	JAGUAR-DP IRQ J85 DJB LLEEO-STAR .....	
Fort Myers (FMY, RSW) .....	LBV .....	
Hartford (HFD) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR .....	1100-0400
Islip (ISP) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK).....	(Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
	or MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR ..	
La Guardia (LGA).....	MCOY-DP SAV J207 RDU J55 HPW J191 PXT ENO-STAR .....	1100-0300
	or (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR .....	
Lawrence (LWM).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR.....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1100-0400
Minneapolis (MSP) .....	(all others) CTY VUZ ALO KASPR-STAR.....	
	or (/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR.....	
Montreal (CYUL).....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR.....	
Nantucket (ACK).....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA) .....	CTY J91 ATL VOLLS-STAR .....	1100-0400

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Terminals	Route	Effective Times (UTC)
Newark (EWR) .....	(Water–Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN–STAR..... or MCOY–DP SAV J207 FLO J55 J51 FAK DYLIN–STAR .....	1100–0400
	or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN–STAR .....	1100–0400
	or (Turbojets–WATER) MLB LENDS AR16 ILM J109 FAK DYLIN–STAR.....	1100–0400
	or (GPS or DME/DME–IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)–STAR or (GPS or DME/DME–IRU equipped–WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)–STAR .....	1100–0400
Newburgh (SWF) .....	(Water–Turbojets)–MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON–STAR.....	
New Haven (HVN) .....	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London (GON) .....	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Philadelphia (PHL) .....	(Turbojets) MCOY–DP SAV J55 CHS J121 SWL SWL034 RADD S VCN–STAR .....	1100–0400
	or (Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADD S VCN–STAR .....	
Pittsburgh (PIT) .....	MCOY–DP SAV J51 CAE PSK EKN IHD NESTO–STAR .....	1100–0400
Poughkeepsie (POU) .....	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON–STAR.....	
Providence (PVD).....	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)–STAR .....	
Springfield (CEF) .....	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK–STAR .....	
St. Louis (STL) .....	CTY J151 VISQA QBALL–STAR..... or (/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL–STAR .....	
Toronto (CYYZ).....	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH–STAR .....	
Washington Dulles (IAD).....	MCOY–DP SAV J55 CHS J165 J109 FAK COATT–STAR .....	1100–0300
Westfield (BAF) .....	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK–STAR .....	
West Palm Beach (PBI) .....	(Turbojets–GPS or DME/DME–IRU equipped) DEARY VRB FRWAY (RNAV)–STAR .....	
	or DEARY VRB TUXXI–STAR .....	
<b>PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)</b>		
Albany (ALB) .....	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL).....	(RNAV only) ORL J81 CHESN CANUK (RNAV)–STAR .....	1100–0300
	or ORL J81 CHESN SINCA–STAR .....	1100–0300
Baltimore (BWI) .....	(Water–Turbojets) A699 PERMT AR16 ILM J40 RIC OTT–STAR .....	
	or	

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Terminals	Route	Effective Times (UTC)
	ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0300
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0300
Bedford (BED) .....	(Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Beverly (BVY) .....	(Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR .....	1100-0300
	or ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1100-0400
Bridgeport (BDR) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	ORL J53 CRG J51 SAV J207 FLO CTF-STAR .....	
	or (Turbojets-GPS or DME/DME IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1100-0300
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0400
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1100-0300
Cincinnati (CVG) .....	(All Others) CTY J91 VXV HARDU-STAR .....	1100-0300
	or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
Cleveland (CLE) .....	ORL J53 SPA J85 TVT040 KEATN KEATN-STAR ....	1100-0300
Columbus (CMH) .....	ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1100-0300
Cross City (CTY) .....	LAL .....	1030-0300
Dallas/Ft Worth (DFW) .....	SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	
Danbury (DXR) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Daytona Beach (DAB) .....	MLB .....	1030-0300
Denver (DEN) .....	SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
	or CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	ORL J53 SPA HNN WEEDA-STAR .....	
Dixon (DIW) .....	(Water-Turbojets) WOLFO AR18 .....	

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Terminals	Route	Effective Times (UTC)
East Hampton (HTO) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Farmingdale (FRG) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN–STAR .....	
Fort Myers (RSW) .....	RSW .....	1030–0300
Groton (GON) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Hartford (HFD) .....	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston (HOU) .....	(GPS or DME/DME–IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)–STAR .....	1000–0300
	or (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)–STAR .....	1000–0300
	or (Non–advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS–STAR .....	1000–0300
Houston (IAH) .....	(GPS or DME/DME–IRU equipped) SRQ Q100 LEV WOLDE (RNAV)–STAR .....	1000–0300
	or (GPS or DME/DME–IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)–STAR .....	1000–0300
	or (Non–advanced NAV only) LAL J73 SZW J2 SJI GILCO–STAR .....	1000–0300
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE–STAR .....	1100–0300
Islip (ISP) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (JAX) .....	ORL J53 .....	1030–0300
Kennedy (JFK) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE J121 SIE CAMRN–STAR .....	1100–0300
	or ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN–STAR .....	1000–0300
La Guardia (LGA) .....	(Water–Turbojets) A699 PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY–STAR .....	
	or ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY–STAR .....	1100–0400
Lawrence (LWM) .....	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM–STAR .....	
	or (Water–ALT–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM–STAR .....	
Louisville (LOU) .....	CTY J91 ATL HCH DARBY–STAR .....	1100–0300
Manchester (MHT) .....	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU–STAR .....	1100–0300
Montreal (CYUL) .....	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT–STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS–STAR .....	1100–0300
Nantucket (ACK) .....	(Water–Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Newark (EWR) .....	(Water–GPS or DME/DME–IRU equipped) A699 PERMT AR16 ILM J109 FAK PHLBO (RNAV)–STAR .....	
	or ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN–STAR .....	1100–0300
	or (WATER) A699 PERMT AR16 ILM J109 FAK DYLIN–STAR .....	
	or	

436	PREFERRED IFR ROUTES	
Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO	
Newburgh (SWF) .....	(RNAV)-STAR .....	1100-0300
	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193	
	KEYED .....	
Ocala (OCF) .....	LAL .....	1030-0300
Orlando (MCO) .....	BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	(Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW .....	1030-0300
Philadelphia (PHL) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR .....	
	or	
	ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDS VCN-STAR.....	1100-0300
Pittsburgh (PIT) .....	ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	
Poughkeepsie (POU) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD).....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Raleigh/Durham (RDU) .....	(Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR .....	
	or	
	ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1100-0400
St. Louis (STL) .....	TBIRD CTY J151 VISQA QBALL-STAR .....	
	or	
	(/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA) .....	LBV BRDGE-STAR .....	1030-0300
	or	
	BRDGE BRDGE-STAR.....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR.....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR.....	1030-0300
Toronto (CYYZ).....	(Water-Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR .....	
	or	
	(Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	
	or	
	ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	
Washington Natl (DCA) .....	(Water) A699 PERMT AR16 ILM J40 RIC IRONS-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
Westfield (BAF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
SE. 23 SEP 2010 to 18 NOV 2010		

Terminals	Route	Effective Times (UTC)
Westhampton Beach (FOK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or (Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) A699 PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>PENSACOLA (PNS)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SJI AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SJI GILCO AEX DAS-STAR .....	1000-0300
<b>PORT AU PRINCE (MTPP)</b>		
Atlanta (ATL) .....	(if unable FL370 by CVIKK) J0SES A315 ZIN FLL ORL CRG SINCA-STAR .....	
	or ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
	or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR .....	
	or (if unable FL370 by CVIKK) J0SES A315 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
Kennedy (JFK) .....	B0TES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN .....	
	or B0TES G444 GTK M594 CERDA L453 AZEJU BERGH L454 OWENZ CAMRN .....	
	or B0TES G444 GTK L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR .....	
	or J0SES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Newark (EWR) .....	ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR .....	
	or ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....	
<b>RALEIGH-DURHAM (RDU)</b>		
Albany (ALB) .....	TYI J79 SBY J79 JOANI LGA LGA055 V487 V130..	1100-0400
Atlanta (ATL) .....	PACKK-DP AZELL CAE J4 IRQ SINCA-STAR .....	1100-0400
	or	

Terminals	Route	Effective Times (UTC)
	(RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK RNAV-STAR .....	1100-0400
Boston (BOS) .....	TYI J79 JFK ORW-STAR .....	
Chicago Midway (MDW) .....	PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR ..	1100-0400
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0400
	or	
	(non-advanced RNAV only) PACKK-DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .	1100-0400
Cincinnati (CVG) .....	(RNAV only) HMV JAKIE (RNAV)-STAR .....	
	or	
	(all others) HMV HARDU-STAR .....	
Columbia (CAE) .....	FAY-DP FAY FLO .....	1100-0400
Dallas/Ft Worth (DFW)	PACKK-DP AZELL SPA J14 VUZ J52 SQS CQY .....	1100-0400
Detroit/Wayne (DTW) .....	AZELL PSK BKW GEMNI-STAR .....	
Fort Lauderdale (FLL) .....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Turbojets) TARL-DP CHS J79 OMN GISSH-STAR .	
	or	
	(Water-Turbojets) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or	
	(Turboprops) TARL-DP CHS J79 OMN MLB BLUFI-STAR .....	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turboprops) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) VUZ JAN AEX ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) VUZ JAN AEX TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR .....	
Kennedy (JFK) .....	TYI ORF J121 SIE CAMRN-STAR .....	1100-0400
La Guardia (LGA) .....	LVL HPW J191 PXT KORRY-STAR .....	
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR22 JORAY HILEY (RNAV)-STAR .....	
	or	
	(Turbojets) TARL-DP CHS J79 OMN ANNEY-STAR .	
	or	
	(Water-Turbojets) TARL-DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSSY MILSY BOYUR HILEY KAINS .....	
	or	
	(Turboprops) TARL-DP CHS J79 OMN ANNEY-STAR .....	
Newark (EWR) .....	LVL FAK DYLIN-STAR .....	1100-0300
	or	



Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR .....	1100-0300
Newburgh (SWF) .....	TYI J79 JFK BDR V91 STUBY .....	1100-0300
Orlando (MCO) .....	(Turbojets) TARL-DP CHS J79 OMN BITHO-STAR.. or (GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
Orlando (ORL) .....	(Turbojets) TARL-DP CHS J79 OMN CORLL-STAR .	1100-0400
Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR... or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR .. or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR.....	
	or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL ....	1100-0400
Philadelphia (PHL) .....	V3 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	PACK-DP ROA EKN IHD NESTO-STAR .....	1100-0400
Sarasota (SRQ) .....	FAY-DP FAY CAE J75 TAY J85 GNV LAL .....	1100-0400
Savannah (SAV) .....	TARL-DP CHS .....	1100-0400
Tampa (TPA) .....	FAY-DP FAY CAE J75 TAY LZARD-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR .....	1100-0400
Windsor Locks (BDL) .....	TYI J79 SBY J79 JFK DPK-STAR .....	1100-0400
<b>SAN JUAN (TJSJ)</b>		
Atlanta (ATL) .....	HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR..... or HARDE A555 ZQA FLL ORL CRG SINCA-STAR..... or CONCH R507.....	
Atlantic City (ACY) .....	ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE .....	
Baltimore (BWI) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR.....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR .....	
Bedford (BED).....	ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Charlotte (CLT) .....	ELMUC L451 OLDEY CHS CHESTERFIELD-STAR... or ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR....	

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)–STAR .....	
	or	
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)–STAR .....	
Cleveland (CLE) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN–STAR .....	
	or	
	ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN–STAR .....	
Dayton (DAY) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE–STAR .....	
	or	
	ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE–STAR .....	
Detroit (DTW).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA–STAR .....	
	or	
	ELMUC L451 OLDEY METTA CHS SPA HNN WEEDA–STAR .....	
Indianapolis (IND) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE–STAR.....	
	or	
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE–STAR .....	
Kennedy (JFK).....	ELMUC L454 LUCTI L454 OWENZ CAMRN .....	
	or	
	ELMUC L453 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN.....	
	or	
	ELMUC L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN–STAR .....	
Louisville (SDF).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY–STAR .....	
	or	
	ELMUC L451 OLDEY METTA CHS SPA HCH DARBY–STAR .....	
Newark (EWR).....	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN–STAR .....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR .....	
	or	
	ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO.....	
	or	
	ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
Ottawa (CYOW) .....	ELMUC L454 LUCTI L454 JFK SYR J599 .....	
	or	
	ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK SYR J599 .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 .....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM SYR J599 .....	
Providence (PVD) .....	ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN .....	
	or	
	ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO JORDN .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN .....	
	or	

Terminals	Route	Effective Times (UTC)
Quebec (CYQB) .....	ELMUC L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN .....	
	ELMUC L454 LUCTI L454 JFK PLB J560 .....	
	or	
	ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560 .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560.....	
	or	
	ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 .....	
	ELMUC L451 OLDEY ILM BRADE-STAR .....	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....	
Raleigh-Durham (RDU) ..... Teterboro (TEB).....	or	
	ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ .....	
	or	
	ELMUC L454 LUCTI L454 OWENZ.....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR.....	
	or	
Washington (DCA) .....	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR .....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT-STAR .....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....	
	or	
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR .....	
Washington (IAD) .....	ELMUC L454 LUCTI L454 OWENZ.....	
	or	
	ELMUC L451 CERDA L453 AZEZU BERGH L454 OWENZ .....	
	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR .....	
	or	
	ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO-STAR .....	
	ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR .....	
	or	
	ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR.....	
Winsor Locks (BDL) .....	or	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DEER PARK-STAR .....	
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP .....	
	or	
White Plains (HPN) .....		
Winnipeg (CYWG) .....		

Terminals	Route	Effective Times (UTC)
<b>SANTO DOMINGO SPECIAL AREA</b> (MDSD, MDPC, MDLR, MDST, MDPP, MDJB, MDCT)	ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP.....	
	[ATTENTION: Routes over JUELE fix are for aircraft that are not HF equipped, not deep over water equipped or do not want to file deep oceanic routes. Also, for aircraft with destinations to Florida airports please see Special High Altitude Directional Routes.]	
Altantic City (ACY) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J121 SIE .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J121 SIE .....	
	or	
	(Non-HF equipped) JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J121 SIE.....	
Baltimore (BWI) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR.....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR.....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR .....	
Bangor (BGR).....	BESAS L464 CERDA LUCTI L454 BERGH HTO LRV J79 .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LRV J79.....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LRV .....	
Bedford (BED).....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR.....	
Boston (BOS) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR.....	
	or	

Terminals	Route	Effective Times (UTC)
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....	
Charlotte (CLT) .....	BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY CHS CHESTERFIELD-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY CHS HUSTN (RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV FLM J24 BIGXX ROYKO (RNAV)-STAR .....	
Cincinnati (CVG) .....	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN JAVIT-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR .....	
Cleveland (CLE) .....	BESAS L464 CERDA L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....	
Dayton (DAY) .....	BESAS L464 CERDA L451 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR .....	
Detroit (DTW) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HNN WEEDA-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HNN WEEDA-STAR .....	
Indianapolis (IND) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU V51 DECEE DECEE-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR .	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR .....	
Kennedy (JFK) .....	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN .....	

Terminals	Route	Effective Times (UTC)
La Guardia (LGA).....	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR .....	
	or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .	
	or BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
	or JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN.....	
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HPW J191 PXT KORRY-STAR .....	
	or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR.....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR .....	
Louisville (SDF).....	or BESAS L464 CERDA L451 OLDEY METTA CHS SPA HCH DARBY-STAR .....	
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HCH DARBY-STAR .....	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J37 ALB J6 PLB PLATTSBURGH-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR ..	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....	
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....	
	or BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK DYLIN-STAR .....	
Morristown (MMU).....	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....	
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR.....	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK DYLIN-STAR .....	
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....	
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR.....	
Newark (EWR).....	or	

Terminals	Route	Effective Times (UTC)
Ottawa (CYOW) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR .....	
	BESAS L464 CERDA LUCTI L454 JFK SYR J599 ...	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 .....	
Philadelphia (PHL) .....	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599 .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM SYR J599 .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE–STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDs CEDAR LAKE–STAR	
	or	
	BESAS L464 LAMER L453 AZEZU B24 SIE .....	
	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN .....	
Providence (PVD) .....	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN .....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN .....	
	BESAS L464 CERDA LUCTI L454 JFK PLB J560....	
	or	
Quebec (CYQB) .....	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560.....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 ....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 .....	
	BESAS L464 CERDA L451 OLDEY ILM BRADE–STAR .....	
	or	
	JUELE L463 NUCAR ILM BRADE–STAR .....	
Raleigh/Durham (RDU) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)–STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN–STAR .....	
	or	
Teterboro (TEB) .....	JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)–STAR .....	
	BESAS L464 CERDA LUCTI L454 JFK SYR J599 ...	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599 .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM SYR J599 .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE–STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
Toronto (CYYZ) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)–STAR .....	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J63 HUO CFB J95 BUF YOUTH (RNAV)–STAR .....	
Washington (DCA) .....	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 BUF YOUTH (RNAV)–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)–STAR .....	
Washington (IAD) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS–STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)–STAR .....	
	or	
White Plains (HPN) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC IRONS–STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)–STAR .....	
	or	
Windsor Locks (BDL) .....	JUELE L463 NUCAR AR3 CLB ILM J40 RIC IRONS–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)–STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA ECG FAK BARIN (RNAV)–STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA ECG FAK COATT–STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)–STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK COATT–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK BARIN (RNAV)–STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK COATT–STAR .....	
	BESAS L464 CERDA L451 OLDEY ECG ORF J121 SIE BOUNO–STAR .....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE BOUNO–STAR .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO–STAR .....	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK–STAR .....	
	or	



Terminals	Route	Effective Times (UTC)
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR .....	
	or	
Winnipeg (CYWG) .....	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP .....	
<b>SARASOTA-BRADENTON AREA (SRQ)</b>		
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR .....	1100-0300
Charlotte (CLT) .....	TAY J85 IRQ UNARM-STAR .....	
	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1100-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Cincinnati (CVG) .....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
	or	
	(all others) CTY J91 VXV HARDU-STAR .....	
Cleveland (CLE) .....	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR ....	
Columbus (CMH) .....	PIE J119 TAY J85 HVQ HNN BREMN-STAR .....	
Dallas/Ft. Worth (DFW) .....	(Water) SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	
Denver (DEN) .....	(Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
Detroit/Wayne (DTW) .....	PIE TAY J85 SPA HNN WEEDA-STAR .....	
Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Willow Run (YIP) .....	PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN CRUX-STAR .....	
Young (DET) .....	PIE J119 TAY J85 DJB LLEE-STAR .....	
Fort Lauderdale (FLL) .....	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) RSW FORTL JINGL (RNAV)-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)–STAR .....	
	or	
	(Non-advanced NAV only) SZW J2 SJI GILCO–STAR .....	1000–0300
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE–STAR .....	
La Guardia (LGA) .....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY–STAR .....	
Louisville (LOU, SDF) .....	CTY J91 ATL HCH DARBY–STAR .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU–STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS–STAR .....	1100–0300
Newark (EWR) .....	TAY J75 CAE J51 FAK DYLIN–STAR .....	1100–0300
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)–STAR .....	1100–0300
Philadelphia (PHL) .....	TAY J75 CAE J51 FAK DPNT–STAR .....	
Pittsburgh (PIT) .....	TAY J75 CAE PSK J53 EKN IHD NESTO–STAR .....	
Windsor Locks (BDL) .....	TAY J75 DUNKN J210 J79 JFK DPK DPK–STAR .....	0700–0000
<b>SAVANNAH (SAV)</b>		
Baltimore (BWI) .....	CHS J79 TYI J40 RIC OTT–STAR .....	1100–0400
Philadelphia (PHL) .....	CHS J121 SWL SWL SWL034 RADDS VCN–STAR ..	1100–0400
Washington Dulles (IAD) .....	J207 RDU FAK COATT–STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J207 RDU FAK BARIN–STAR .....	
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Atlanta (ATL) .....	SZW LGC–STAR .....	
	or	
	(RNAV only) SZW HONIE (RNAV)–STAR .....	
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT–STAR .....	1100–0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)–STAR .....	1100–0400
Boston (BOS) .....	TAY J75 DUNKN J210 J79 JFK ORW–STAR .....	1100–0400
Charlotte (CLT) .....	TAY J85 IRQ UNARM–STAR .....	
	or	
	(Turbojets–GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)–STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)–STAR .....	1100–0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100–0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)–STAR .....	0000–2359
	or	
	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX–STAR .....	0000–2359
Cincinnati (CVG) .....	(All Others) CTY J91 VXV HARDU–STAR .....	
	or	
	(RNAV only) CTY J91 VXV JAKIE (RNAV)–STAR .....	
Cleveland Metro (CLE) .....	PIE J119 TAY J85 TVT040 KEATN KEATN–STAR ...	
	or	
	CTY J91 HNN TVT KEATN–STAR .....	
Columbus (CMH) .....	PIE J119 TAY J85 HVQ HNN BREMN–STAR .....	
	or	
	CTY J91 HNN BREMN–STAR .....	
Denver (DEN) .....	SZW J41 MEM RZC PER GCK J154 RYLIE DANDD–STAR .....	
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA–STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK), Young (DET) .....	CTY J91 VXV J43 FLM DQN CRUXX–STAR .....	
Willow Run (YIP) .....	CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX .....	

Terminals	Route	Effective Times (UTC)
Windsor (CYQG) .....	PIE J119 TAY J85 DJB LLEE0-STAR .....	
Fort Lauderdale:		
Hollywood Intl (FLL), Executive (FXE),		
Pompano Beach (PMP), North Perry		
(HWO), Opa Locka (OPF) .....	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) SABEE RXNAN	
	JINGL (RNAV)-STAR .....	
Fort Myers (RSW), (FMY) .....	(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR.....	
Fort Pierce (FPR) .....	VRB .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS	
	Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI	
	COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX	
	DAS-STAR.....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS	
	Q100 LEV WOLDE (RNAV)-STAR.....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI	
	WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 SJI	
	GILCO-STAR.....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR .....	
Kennedy (JFK) .....	TAY J75 J210 J121 SIE CAMRN-STAR .....	
Key West (EYW) .....	RSW J41.....	1030-0300
La Guardia (LGA) .....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55	
	HPW J191 PXT KORRY-STAR .....	1100-0400
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	
Miami (MIA).....	(all others) RSW CYY CYY-STAR.....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW	
	CYY SSCOT (RNAV)-STAR.....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	
Newark (EWR).....	TAY J75 CAE J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	TAY J75 CAE J51 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	TAY J75 CAE PSK EKN IHD NESTO-STAR .....	
Raleigh-Durham (RDU) .....	TAY J75 CAE BUZZY-STAR .....	
Washington Dulles (IAD) .....	TAY J75 CAE J51 FAK COATT-STAR .....	1100-0400
Washington Natl (DCA).....	TAY J75 CAE J52 RIC IRONS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J52 RIC OJAAY (RNAV)-STAR .....	1100-0400
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABEE JOO0E WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR ....	0700-0000
From St Petersburg (PIE) only:		
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA-STAR	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK) Willow		
Run (YIP) .....	CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Windsor (CYQG), Young (DET) .....	PIE J119 TAY J85 DJB LLEE0-STAR.....	

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES  
FOR ATLANTA HARTSFIELD INTL ARPT  
(JETS AND TURBOPROPS)

**NORTHEAST**

Traffic originating North and East of J186 to North of a line from ATL to RDU file:

.....	MOL WHINZ-STAR .....
	or
.....	MOL FLCON (RNAV)-STAR .....
.....	J145 ODF WHINZ-STAR .....
	or
.....	J145 ODF FLCON (RNAV)-STAR .....
.....	VXV WHINZ-STAR .....
	or
.....	VXV FLCON (RNAV)-STAR .....
.....	J186 ODF WHINZ-STAR .....
	or
.....	J186 ODF FLCON (RNAV)-STAR .....
.....	SPA ODF WHINZ-STAR .....
	or
	SPA ODF FLCON (RNAV)-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

.....	IRQ SINCA-STAR .....
	or
	IRQ CANUK (RNAV)-STAR .....
.....	DBN SINCA-STAR .....
	or
	DBN CANUK (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

.....	MEI LGC-STAR .....
	or
	MEI HONIE (RNAV)-STAR .....
.....	SZW LGC-STAR .....
	or
	SZW HONIE (RNAV)-STAR .....
.....	MGM LGC-STAR .....
	or
	MGM HONIE (RNAV)-STAR .....

**NORTHWEST**

Traffic originating West and North of J43 to North of J14 file:

.....	BWG RMG-STAR .....
	or
	BWG ERLIN (RNAV)-STAR .....
.....	BNA RMG-STAR .....
	or
	BNA ERLIN (RNAV)-STAR .....
.....	MEM RMG-STAR .....
	or
	MEM ERLIN (RNAV-STAR) .....

## SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA AIRPORTS (SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)

**NORTHEAST**

Traffic originating North and East of a line from ATL to VXV to North of a line from ATL to RDU file:

.....	J48 ODF AWSON-STAR .....
.....	J145 ODF AWSON-STAR .....
.....	VXV AWSON-STAR .....
.....	J186 ODF AWSON-STAR .....
.....	SPA ODF AWSON-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

.....	IRQ TRBOW-STAR .....
.....	DBN TRBOW-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

.....	MEI LGC DIFFI-STAR .....
.....	SZW LGC DIFFI-STAR .....
.....	MGM LGC DIFFI-STAR .....

**NORTHWEST**

Traffic originating West and North of a line from ATL to VXV to North of J14 file:

.....	GQO BUNNI-STAR .....
.....	RQZ BUNNI-STAR .....

## SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR CHARLOTTE TERMINAL AREA

**NORTHEAST**

Traffic originating North and East of J53 to North of a line from CLT to RDU file:

.....	LYH MAJIC-STAR .....
.....	RDU SUDSY (RNAV)-STAR .....
.....	ROA MAJIC-STAR .....

**SOUTHEAST**

Traffic originating South of a line from CLT to RDU to South and East of J51 file:

.....	FLO CTF-STAR .....
.....	FLO HUSTN (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J51 to South of J118 file:

.....	ATL ADENA (RNAV)-STAR .....
.....	ATL UNARM-STAR .....
.....	IRQ ADENA (RNAV)-STAR .....
.....	IRQ UNARM-STAR .....

**NORTHWEST**

Traffic originating West of J53 to North of J118 file:

.....	VXV SHINE-STAR .....
.....	HMV SHINE-STAR .....

## SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

### NORTHEAST

Traffic entering Memphis ARTCC north of J118:

.....	BNA WILDER-STAR .....
.....	BWG WILDER-STAR .....
.....	PXV WILDER-STAR .....

### NORTHWEST

Traffic entering Memphis ARTCC on or west of J35:

.....	FAM GQE-STAR .....
.....	ARG GQE-STAR .....
.....	SGF ARG GQE-STAR .....
.....	RZC GQE-STAR .....
.....	FSM GQE-STAR .....

1100-0200

### SOUTHEAST

Traffic entering Memphis ARTCC south of J118:

.....	VUZ HLI-STAR (MONDAY-FRIDAY) .....
.....	GQO HLI-STAR .....

1100-0200

### SOUTHWEST

Traffic entering Memphis ARTCC on or south of J6:

.....	LIT MARVELL-STAR .....
.....	TXK MARVELL-STAR .....
.....	ELD MARVELL-STAR .....
.....	SQS MARVELL-STAR .....

1100-0200

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for northbound Caribbean flights originating from Santo Domingo UIR (MDCS) to:		
FLL .....	(Advanced RNAV equipped) JUELE L463	
	BTLER A555 ZQA 054V CAREY DEKAL	
	WAVUN (RNAV)-STAR .....	
	or	
	JUELE L463 BTLER A555 ZQA 054V CAREY	
	DEKAL DEKAL-STAR .....	
	or	
(Advanced RNAV equipped) RETAK A636 ZIN		
A315 HODGY ZQA 054V CAREY DEKAL		
WAVUN(RNAV)-STAR .....		
	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V	
	CAREY DEKAL DEKAL-STAR .....	
MIA .....	(Advanced RNAV equipped) JUELE L463	
	BTLER A555 ZQA FLIPR (RNAV)-STAR .....	
	or	
	JUELE L463 BTLER A555 ZQA FOWEE -STAR	
	or	
	(Advanced RNAV equipped) RETAK A636 ZIN	
	A315 HODGY FLIPR(RNAV)- STAR .....	
	or	
	RETAK A636 ZIN A315 HODGY FOWEE-STAR	
PBI .....	JUELE L463 BTLER A555 ZQA 054V PBI .....	
	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V .....	

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic overflying Atlanta Center originating north and east of a line from TYS to LAL (except DAY and CVG) for ZTL to MCO:		
.....	PSK CAE SAV OMN BITHO-STAR .....	1100-0400
.....	or	
.....	J83 SPA CAE SAV OMN BITHO-STAR.....	1100-0400
.....	or	
.....	(GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
.....	or	
.....	(GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK:		
BDL.....	GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR.....	
BOS .....	(Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR .....	
.....	or	
.....	(Turboprop only) SIE J121 HTO V308 ORW V16 WOONS .....	
BWI .....	SPA J14 RIC OTT-STAR .....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR .....	
DCA.....	SPA J14 RIC IRONS-STAR .....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR .....	
EWB .....	SPA J14 J15 FAK DYLIN-STAR .....	
.....	or	
.....	(GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR .....	
IAD .....	SPA J14 J51 FAK COATT-STARR.....	
JFK.....	GRD J209 ORF J121 SIE CAMRN-STAR.....	
LGA .....	AHN J208 HPW J191 PXT KORRY-STAR .....	
PHL.....	SPA J14 J51 FAK DPNT-STAR .....	
Northbound from over VXV with destination of CMH:	VXV J91 HNN BREMN-STAR.....	
Traffic overflying Atlanta Center Northbound from over SPA to CMH:	SPA J85 HVQ HNN BREMN-STAR .....	
Traffic overflying Atlanta Center Northbound from over PSK to CMH:	PSK HVQ HNN BREMN-STAR.....	
Traffic overflying Atlanta Center Southbound originating North and East of line from VXV to LAL (except DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI, RSW, SRQ and TPA file:	PSK CAE.....	1100-0300
.....	or	
.....	J83 SPA J85 AMG.....	1100-0300
Traffic overflying Atlanta Center Southbound originating North and East of a line from VXV to LAL (with DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI and RSW file:		
.....	VXV J91 ATL OTK .....	1100-0300
.....	or	
.....	BNA J73 SZW.....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300
.....	or	
.....	BNA J73 SZW.....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic originating South of Wilmington VORTAC (ILM):		
EWR .....	ILM J109 FAK DYLIN-STAR.....	1100-0300
	or	
	(GPS or DME/DME.IRU equipped) ILM J109	
FRG .....	FAK PHLBO (RNAV)-STAR .....	1100-0300
	(Water-Turbojets) WOLFO AR18 DIW WETRO	
JFK.....	CEBEE SWL J121 SIE CAMRN-STAR .....	
	(Water-Turbojets) WOLFO AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	1100-0300
LGA .....	ILM TYI HPW J191 PXT KORRY-STAR .....	1100-0300
Traffic overflying Ormond Beach VORTAC (OMN) destined MIA:		
OMN.....	OMN J79 VRB HEATT-STAR .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to La Romana (MDLR) and Nagua (MDCY):		
ZMA .....	LETON L450 GTK ASIVO .....	
	or	
	LNHOM L452 GTK ASIVO.....	
	or	
	LAMER L464 CERDA L453 ASIVO .....	
	or	
	MLLER M594 CERDA L459 ASIVO .....	
	or	
	NUCAR L463 RNDLY ASIVO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Puerto Plata (MDPP):		
ZMA .....	LETON L450 SEKAR A554 PTA.....	
	or	
	LNHOM L452 GTK A554 PTA .....	
	or	
	LAMER L453 MACKI B891 PTA .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	MACKI B891 PTA .....	
	or	
	MLLER M594 CERDA L453 MACKI B891	
	PTA .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 PTA.....	
	or	
	WATRS M596 PTA .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Santo Domingo (MDSO):		
ZMA .....	LETON L450 SEKAR A554 CDO .....	
	or	
	LNHOM L452 GTK L450 SEKAR A554 CDO...	
	or	
	LAMER L453 ASIVO CDO .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	ASIVO CDO .....	
	or	
	MLLER M594 CERDA L453 ASIVO CDO .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 CDO .....	



## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Port au Prince (MTPP):		
ZMA .....	LETON L450 GTK G444 OBN .....	
	or	
	LNHOM L452 GTK G444 OBN .....	
	or	
	LAMER L464 CERDA M594 GTK G444 OBN .	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Johns Island (TAPA):		
ZMA .....	LETON L451 ELMUC L451 ANU .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451 ANU .....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 ANU .....	
	or	
	LUCTI L454 ELMUC L451 ANU .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Bridgetown (TBPB):		
ZMA .....	LETON L451 ELMUC L454 ILURI A555 BGI ...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 BGI .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 ILURI A555 BGI .....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 BGI ....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Fort de France (TFFF):		
ZMA .....	LETON L451 ELMUC L454 ILURI A555 FOF...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 FOF .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 ILURI A555 FOF .....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 FOF....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Grand Case (TFFG) and Saint Barthelemy (TFFJ) and Oranjestad-Roosevelt (TNCE) and Sanit Maarten (TNCM) and The Valley (TQPF):		
ZMA .....	LETON L451 ELMUC L451 PJM .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451 PJM .....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 PJM .....	
	or	
	LUCTI L454 ELMUC L451 PJM .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Point a Pitre (TFFR):		
ZMA .....	LETON L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEEEO MODUX R888 PPR .....	
	or	
	LUCTI L454 ELMUC L454 LEEEO MODUX R888 PPR .....	

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin (TIST):		
ZMA .....	LETON L451 ELMUC L454 PANMO JETSS .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LUCTI L454 ELMUC L454 PANMO JETSS .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin (TISX):		
ZMA .....	LETON L451 ELMUC L454 PANMO COY .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO COY .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO COY .....	
	or	
	LUCTI L454 ELMUC L454 PANMO COY .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ):		
ZMA .....	LETON L451 ELMUC BQN .....	
	or	
	LNHOM L452 JORGG L451 ELMUC BQN .....	
	or	
	LAMER L453 CERDA L451 ELMUC BQN .....	
	or	
	LUCTI L454 ELMUC BQN .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG):		
ZMA .....	LETON L451 ELMUC IDAHO BEANO .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LUCTI L454 ELMUC IDAHO BEANO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ):		
ZMA .....	LETON L451 ELMUC MAZ .....	
	or	
	LNHOM L452 JORGG L451 ELMUC MAZ .....	
	or	
	LAMER L453 CERDA L451 ELMUC MAZ .....	
	or	
	LUCTI L454 ELMUC MAZ .....	

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Ponce (TJPS):		
ZMA .....	LETON L451 ELMUC PSE.....	
	or	
	LNHOM L452 JORGG L451 ELMUC PSE .....	
	or	
	LAMER L453 CERDA L451 ELMUC PSE .....	
	or	
	LUCTI L454 ELMUC PSE.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJSJ):		
ZMA .....	LETON L451 ELMUC IDAHO R006 .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO R006 .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO R006 .....	
	or	
	LUCTI L454 ELMUC IDAHO R006.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Golden Rock (TKPK) and Charlestown (TKPN):		
ZMA .....	LETON L451 ELMUC L454 LEEEO DANDE G633 SKB.....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 LEEEO DANDE G633 SKB .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEEEO DANDE G633 SKB .....	
	or	
	LUCTI L454 ELMUC L454 LEEEO DANDE G633 SKB.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Crown Point (TTCP) and Port of Spain (TTPP):		
ZMA .....	LETON L451 ELMUC G431 DDP G449 POS...	
	or	
	LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS .....	
	or	
	LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS .....	
	or	
	LUCTI L454 ELMUC G431 DDP G449 POS....	
	or	
	GTK L452 ANADA G449 POS .....	

## HIGH ALTITUDE—SINGLE DIRECTION ROUTES

<b>Airway</b>	<b>Segment Fixes</b>	<b>Direction Effective</b>	<b>Effective Times (UTC)</b>
J14 .....	Greensboro, NC to Richmond, VA .....	Northeast	1100-0300
J37 .....	Coyle, NJ to Spartanburg, SC .....	Southwest	1100-0300
J40 .....	Wilmington, NC to Richmond, VA .....	North	1100-0300
J48 .....	Pottstown, PA to Foothills, GA .....	Southwest	1100-0300
J51 .....	Columbia, SC to Yardley, NJ .....	Northeast	1100-0300
J52 .....	Columbia, SC to Richmond, VA .....	Northeast	1100-0300
J55 .....	Florence, SC to HUBBS Int., VA .....	Northeast	1100-0300
J75 .....	Modena, PA to Greensboro, NC .....	Southwest	1100-0300
J89 .....	Atlanta, GA to HITTR Int, FL .....	South	1100-0300
J91 .....	Cross City, FL to Atlanta, GA .....	North	1100-0300
J109 .....	Wilmington, NC to Buffalo, NY .....	North	1100-0300
J165 .....	Charleston, SC to Richmond, VA .....	North	1100-0300
J191 .....	Wilmington, NC to Robbinsville, NJ .....	North	1100-0300
J193 .....	HUBBS Int., VA to Wilmington, NC .....	South	1100-0300
J207 .....	Florence, SC to Franklin, VA .....	Northeast	1100-0300
J208 .....	Athens, GA to Hopewell, VA .....	Northeast	1100-0300
J209 .....	Greenwood, SC to Norfolk, VA .....	Northeast	1100-0300

## GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

## Q100

LEV VORTAC  
 REDFN N28°52.98' / W088°42.11'  
 ROZZI N28°18.87' / W086°42.31'  
 REMIS N27°53.04' / W085°15.47'  
 SRQ VORTAC

## Q102

LEZ VORTAC  
 BLVNS N28°22.94' / W088°02.05'  
 BUNNZ N28°00.58' / W086°45.76'  
 BACCA N27°35.51' / W085°20.66'  
 CIGAR N27°29.61' / W084°46.99'  
 BAGGS N27°08.06' / W082°50.45'  
 CYY VORTAC

## Q105

HRV VORTAC  
 FATSO N29°41.40' / W089°47.08'  
 REDFN N28°52.98' / W088°42.11'  
 BLVNS N28°22.94' / W088°02.05'

## Q-ROUTES REGULATORY

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTRR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTRR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

460	Q-ROUTES	
Route	Segment	DME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
Q9	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q21	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL
Q24	LAKE CHARLES-BATON ROUGE	AEX, DAS, LCH, MCB, LFT, BTR
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
Q25	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q30	DHART-JODOX	SQS, LIT, TXK
Q31	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
Q32	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
Q33	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
Q34	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
Q35	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD

Route	Segment	DME
<b>Q36</b>	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
<b>Q38</b>	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
<b>Q40</b>	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
<b>Q42</b>	WINAP-MISLE	MEI, VUZ, JYU
	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
<b>Q104</b>	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-CYPRESS	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
<b>Q106</b>	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
<b>Q108</b>	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
<b>Q110</b>	THNOR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
<b>Q112</b>	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
<b>Q116</b>	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
<b>Q118</b>	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
<b>Q501</b>	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
<b>Q504</b>	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
<b>Q505</b>	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

### RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.





## HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

## HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

Houston Hobby	LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

## Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVA or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or  
Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or  
Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

**Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area

CURLY CURLY-STAR  
or  
ESPAN FRIHO-STAR  
or  
LAVAN LAVAN-STAR  
or  
FTI FRIHO-STAR  
or  
MIERA MIERA-STAR

Austin Terminal Area

Aircraft west of a north-south line at LFK, BLEWE  
or  
Aircraft east of a north-south line at LFK, IDU  
or  
LLO

Boca Raton, FL

CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR  
Aircraft through ZHU remain south of ZME and ZTL airspace  
or  
DEFUN Q112 INPIN SHDAY (RNAV)-STAR  
Aircraft through ZHU remain south of ZME and ZTL airspace  
or  
SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway

CVA MOTIF-STAR  
or  
PIA MOTIF-STAR  
or  
DBQ CVA MOTIF-STAR  
or  
LMN MOTIF-STAR

Chicago O'Hare Terminal Area

GEP DLL MSN JVL JANESVILLE-STAR  
or  
TVC PULLMAN-STAR  
or  
FOD DBQ JVL JANESVILLE-STAR  
or  
MCW JANESVILLE-STAR  
or  
GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area

IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR  
Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM  
or  
Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW  
or  
Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS  
or  
Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	OATHE DANDD-STAR
	or
	HGO QUAIL-STAR
	or
	LOPEC-STAR
	or
	ALS LARKS-STAR
	or
	HBV POWDR-STAR
	or
	EKR TOMSN-STAR
	or
	CHE TOMSN-STAR
	or
	BFF LANDR-STAR
	or
	LBF SAYGE-STAR
	or
	HCT SAYGE-STAR
	or
	RSK LARKS-STAR
	or
	LAA QUAIL-STAR
	or
	GCK J154 RYLIE DANDD-STAR
	or
	OCS J154 ALPOE RAMMS-STAR
	or
	YANKI J114 SNY LANDR-STAR
	or
	Aircraft filed BIL or east, MBW RAMMS-STAR
	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR
Ft Lauderdale or Ft Lauderdale Executive	Aircraft through ZHU airspace remain south ZME and ZTL airspace
	or
Houston Bush	SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
	CRP, CVE, LLO, LUKIY, SAT
	or
	Aircraft south and east of LLA, JEPEG
	or
	MISLE Q40 AEX
	or
	Aircraft north and east of SJI, SJI
	or
	Aircraft east of PXV, PXV Q31 DHART SWB
Houston Hobby	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	CRP, ELLVR, SAT, SWB
	or
	Aircraft south and east of GIRLY, KCEEE
	or
	Aircraft north and east of SJI, SJI
	or
	BESOM Q38 ROKIT ROKIT-STAR
	or
Jacksonville	Aircraft east of PXV, PXV Q29 HARES SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	GADAY ZOOSS TAY
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	ZOOSS TAY

John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL and or SZW HEVVN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL and or SZW HEVVN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL and or OTK LEESE–STAR



Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU

San Francisco	FMG GOLDEN GATE–STAR or MVA MODESTO–STAR or ENI GOLDEN GATE–STAR or OAL MODESTO–STAR or South of a line ILC to DVC, REANA KATTS OAL MODESTO–STAR
San Jose	FMG HYP EL NIDO–STAR or OAL HYP EL NIDO–STAR or ENI GOLDEN GATE–STAR or South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO–STAR
Seattle Terminal Area	Aircraft From northeast, southeast, south, TEMPL GLASR–STAR or SUNED CHINS–STAR or BTG OLMYPIA–STAR
Southwest Florida Airports RSW and FMY	CEW DEFUN Q104 SWABE JOSFF–STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW HEVVN Q104 SWABE JOSFF–STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS–STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW DARBS–STAR
Tucson	DRK PXR or MOHAK GBN

## VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag.

The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

## BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPPOF	_____	N38°56.32' /W076°36.90'

## BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

## BOSTON TERMINAL AREA CHART

VPCOH	COHASSET	N42°13.58' /W070°48.94'
VPCUT	CUTTYHUNK HARBOR	N41°25.50' /W070°55.03'
VPFRA	FRAMINGHAM SHOPPING CENTER	N42°18.16' /W071°23.65'
VPHOL	WOODS HOLE	N41°31.06' /W070°40.60'
VPHUL	HULL	N42°18.20' /W070°55.30'
VPLPT	NANTUCKET GREAT POINT	N41°23.41' /W070°02.78'
VPNED	NEEDHAM TOWERS	N42°18.51' /W071°14.64'
VPPEA	PEABODY SHOPPING CENTER	N42°32.52' /W070°56.69'
VPROC	ROCKINGHAM RACE TRACK	N42°46.29' /W071°13.57'
VPSCI	SCITUATE	N42°11.89' /W070°43.69'
VPTPT	NANTUCKET THIRD POINT	N41°18.51' /W070°03.37'
VPTUC	TUCKERNUCK	N41°18.31' /W070°15.43'
VPWAK	WAKEFIELD	N42°30.72' /W071°05.24'
VPWAN	WANG TOWERS	N42°36.88' /W071°19.45'

## CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

474	VFR WAYPOINTS	
	DENVER TERMINAL AREA CHART/FLYWAY CHART	
VPBEN	_____	N39°44.28' /W104°26.00
VPFTG	_____	N39°44.35' /W104°32.75
VPNIC	NORTH INTERCHANGE	N39°58.90' /W104°59.27
	HOUSTON TERMINAL AREA CHART/FLYWAY CHART	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25' /W095°09.24
VPDTN	_____	N29°46.59' /W095°22.01
VPGLA	_____	N30°08.32' /W095°06.62
VPGLB	_____	N30°07.80' /W094°55.70
VPKTY	_____	N29°47.05' /W095°44.92
VPPLN	_____	N30°08.80' /W095°50.42
VPRSN	_____	N29°30.00' /W095°41.00
VPSND	_____	N29°23.13' /W095°28.86
VPSNT	_____	N29°49.29' /W094°53.94
VPTNE	_____	N29°47.48' /W095°03.34
VPTNW	_____	N29°47.06' /W095°33.81
VPTRK	_____	N29°24.06' /W095°10.44
	JACKSONVILLE SECTIONAL CHART	
VPAFI	_____	N31°49.35' /W081°51.07
VPAFY	_____	N30°07.00' /W081°21.33
VPBEC	_____	N29°46.25' /W081°15.10
VPCJA	_____	N29°30.00' /W081°06.00
VPCKY	_____	N28°46.50' /W082°34.00
VPCNY	_____	N28°30.00' /W080°45.00
VPDAD	DADE CITY	N28°22.57' /W082°11.25
VPDAR	_____	N31°22.38' /W081°24.13
VPDFI	_____	N29°00.17' /W081°20.85
VPDUT	_____	N27°37.70' /W082°09.10
VPEAR	CLEARWATER BEACH	N27°58.67' /W082°49.83
VPEGV	_____	N29°39.97' /W081°24.87
VPFFU	_____	N28°57.08' /W081°00.33
VPGPE	ST PETE BEACH	N27°43.50' /W082°44.67
VPHAA	_____	N30°04.02' /W083°40.02
VPHUC	_____	N28°19.87' /W082°43.77
VPIWA	MIDWAY	N31°48.33' /W081°25.85
VPJMY	_____	N29°26.92' /W081°18.27
VPKER	LAKE PARKER	N28°04.00' /W081°56.00
VPLEV	_____	N28°48.00' /W080°52.00
VPLJA	_____	N29°00.00' /W080°51.00
VPMAI	_____	N30°50.02' /W084°56.63
VPTLH	_____	N30°32.70' /W083°52.22
VPXZY	_____	N29°35.00' /W083°10.00
VPYIW	_____	N30°42.28' /W081°27.25
VPZIE	_____	N32°01.62' /W080°53.42
	KANSAS CITY SECTIONAL CHART	
VPAGO	_____	N37°50.33' /W090°29.03
VPBEK	_____	N37°15.07' /W092°30.67
VPDEN	_____	N37°46.75' /W092°19.20
VPENE	_____	N37°44.75' /W091°55.78
VPESS	_____	N36°59.48' /W091°00.88
VPFME	_____	N37°41.00' /W092°38.33
VPGXY	_____	N37°15.50' /W091°40.17
VPMBE	_____	N37°11.08' /W090°27.92
VPMKE	_____	N37°24.47' /W092°40.00
VPROV	_____	N38°01.72' /W091°12.81
VPUTT	_____	N37°52.05' /W092°01.20
	SE. 23 SEP 2010 to 18 NOV 2010	

## WAYPOINT IDENT

VPWOC  
VPWRO  
VPXIZ

## COLLOCATED VFR CHECKPOINT

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## LOCATION

N37°18.03' /W092°18.63'  
N37°39.12' /W091°45.68'  
N37°26.60' /W092°05.42'

## KANSAS CITY TERMINAL AREA CHART

VPATN	ATCHISON	N39°33.62' /W095°07.65'
VPBG5	BLUE SPRINGS	N39°01.82' /W094°16.32'
VPBSP	BONNER SPRINGS	N39°03.78' /W094°53.10'
VPCHB	CHOUTEAU BRIDGE	N39°08.77' /W094°32.03'
VPDSO	DE SOTO	N38°58.68' /W094°58.48'
VPESG	EXCELSIOR SPRINGS	N39°20.68' /W094°13.77'
VPGTB	GARRETSBURG	N39°40.92' /W094°41.45'
VPLAT	LATHROP WATER TANK	N39°32.87' /W094°20.00'
VPLEN	LENEXA	N38°57.77' /W094°43.68'
VPLVL	LONGVIEW LAKE	N38°54.63' /W094°28.28'
VPMCL	MC LOUTH	N39°11.65' /W095°12.50'
VPNHA	NASHUA	N39°17.83' /W094°34.80'
VPSCX	SPORTS COMPLEX	N39°03.00' /W094°29.02'
VP5KR	SUGAR CREEK REFINERY	N39°07.00' /W094°27.02'
VPSPK	SWOPE PARK	N39°00.47' /W094°31.93'
VPTSK	TWIN STACKS	N39°09.05' /W094°38.22'
VPWOF	WORLDS OF FUN	N39°10.42' /W094°29.12'

## KLAMATH FALLS SECTIONAL CHART

VPORO	_____	N43°57.38' /W123°02.22'
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## LOS ANGELES HELICOPTER CHART

VPANA	_____	N33°44.43' /W117°50.03'
VPART	MAGNOLIA	N33°51.45' /W117°58.92'
VPAUT	HWY 91 & 55	N33°50.63' /W117°49.57'
VPBOB	_____	N33°59.60' /W117°21.45'
VP5CAR	_____	N33°49.90' /W118°17.23'
VP5CNG	CONEJO GRADE US HWY 101	N34°12.54' /W118°59.61'
VP5COR	_____	N33°52.90' /W117°32.95'
VP5CRX	_____	N34°01.40' /W117°44.88'
VP5CSU	CSU CHANNEL ISLANDS	N34°09.76' /W119°02.53'
VP5DOW	_____	N33°56.47' /W118°05.80'
VP5ELA	_____	N34°00.98' /W118°10.35'
VP5ETY	_____	N33°38.70' /W117°44.12'
VP5FCB	_____	N34°02.03' /W118°01.63'
VP5FPL	OXNARD FINANCIAL PLAZA	N34°13.71' /W119°10.39'
VP5GOL	_____	N34°09.33' /W118°17.37'
VP5IMP	_____	N33°55.85' /W118°16.85'
VP5KAT	_____	N33°48.23' /W117°54.22'
VP5KEL	_____	N34°03.92' /W117°48.40'
VP5LAC	_____	N34°03.75' /W118°14.93'
VP5LLU	_____	N34°03.85' /W117°17.82'
VP5LQM	QUEEN MARY	N33°45.17' /W118°11.37'
VP5LRT	SANTA ANITA RACE TRACK	N34°08.45' /W118°02.65'
VP5LVT	VINCENT THOMAS BRIDGE	N33°44.97' /W118°16.32'
VP5MDR	_____	N33°59.27' /W118°23.97'
VP5NEW	NEWHALL PASS	N34°20.18' /W118°30.72'
VP5NUY	_____	N34°09.63' /W118°28.18'
VP5PCH	_____	N33°28.07' /W117°40.32'
VP5PKC	_____	N34°03.32' /W118°12.83'
VP5POR	_____	N34°00.10' /W117°50.12'
VP5RRT	_____	N33°59.37' /W118°16.83'
VP5SEP	_____	N34°05.80' /W118°28.63'
VP5SFR	_____	N34°17.45' /W118°28.07'
VP5STC	SATICOY BRIDGE	N34°16.62' /W119°08.34'
VP5STK	_____	N34°13.97' /W118°24.60'

476 VFR WAYPOINTS		
LOS ANGELES SECTIONAL CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54' /W118°59.61
VPCSU	CSU CHANNEL ISLANDS	N34°09.76' /W119°02.53
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71' /W119°10.39
VPSTC	SATICOY BRIDGE	N34°16.62' /W119°08.34

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART		
VPCNG	CONEJO GRADE US HWY 101	N34°12.54' /W118°59.61
VPCSU	CSU CHANNEL ISLANDS	N34°09.76' /W119°02.53
VPGTY	GETTY CENTER	N34°04.84' /W118°28.66
VPLBP	BANNING PASS	N33°56.05' /W116°59.63
VPLCC	CHAFFEY COLLEGE	N34°08.87' /W117°34.33
VPLCP	CAJON PASS	N34°18.07' /W117°27.68
VPLDL	DISNEYLAND	N33°48.72' /W117°55.13
VPLDP	DANA POINT	N33°27.62' /W117°42.87
VPLDS	DODGER STADIUM	N34°04.42' /W118°14.42
VPLFX	91/605 INTERCHANGE	N33°52.38' /W118°06.08
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10' /W118°18.02
VPLHF	110/405 FWYS	N33°51.42' /W118°17.10
VPLHP	HUNTINGTON PIER	N33°39.32' /W118°00.25
VPLKH	KING HARBOR	N33°50.75' /W118°23.88
VPLLC	L.A. COLISEUM	N34°00.83' /W118°17.27
VPLLM	LAKE MATHEWS	N33°50.58' /W117°26.85
VPLMM	MAGIC MOUNTAIN	N34°26.20' /W118°36.28
VPLMS	MILE SQUARE PARK	N33°43.40' /W117°56.77
VPLPD	PRADO DAM	N33°53.40' /W117°38.48
VPLPP	PACIFIC PALISADES	N34°02.13' /W118°32.15
VPLQM	QUEEN MARY	N33°45.17' /W118°11.37
VPLRB	ROSE BOWL	N34°09.67' /W118°10.05
VPLRT	SANTA ANITA RACE TRACK	N34°08.45' /W118°02.65
VPLSA	SANTA ANA CANYON	N33°52.03' /W117°42.68
VPLSB	SANTA FE FLOOD BASIN	N34°07.72' /W117°57.30
VPLSC	STATE COLLEGE	N33°52.97' /W117°53.13
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87' /W118°29.00
VPLSP	SIGNAL PEAK	N33°36.33' /W117°48.63
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07' /W118°21.13
VPLSS	SANTA SUSANA PASS	N34°16.00' /W118°38.43
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40' /W118°20.30
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97' /W118°16.32
VPLWT	WATER TANK	N34°10.82' /W118°46.27
VPNEW	NEWHALL PASS	N34°20.18' /W118°30.72
VPSTC	SATICOY BRIDGE	N34°16.62' /W119°08.34

MIAMI SECTIONAL CHART		
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93
VPBOV	_____	N27°57.00' /W080°46.75
VPCLE	_____	N26°27.07' /W082°00.88
VPCTE	_____	N26°09.28' /W081°20.70
VPDAD	DADE CITY	N28°22.57' /W082°11.25
VPDUT	_____	N27°37.70' /W082°09.10
VPDZE	_____	N27°19.00' /W080°44.17
VPEAR	CLEARWATER BEACH	N27°58.67' /W082°49.83
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00
VPFAH	_____	N26°25.40' /W081°29.67
VPGPE	ST PETE BEACH	N27°43.50' /W082°44.67
VPHRO	_____	N27°05.97' /W082°12.20
VPHUC	_____	N28°19.87' /W082°43.77
VPIBR	_____	N27°12.47' /W081°40.22
VPKER	LAKE PARKER	N28°04.00' /W081°56.00
VPKOE	_____	N24°40.08' /W081°20.55
VPLYY	_____	N24°49.07' /W080°49.17
VPMBO	GULFSTREAM PARK	N25°58.57' /W080°08.17
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75
VPRBI	_____	N25°50.67' /W080°55.18
VPRNL	RANGER STATION	N25°22.92' /W080°36.58
VPWMO	_____	N27°03.00' /W080°35.00

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## MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00'
VPMBO	GULFSTREAM PARK	N25°58.57' /W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75'
VPRBI	_____	N25°50.67' /W080°55.18'
VPRNL	RANGER STATION	N25°22.92' /W080°36.58'

## NEW ORLEANS SECTIONAL CHART

VPGPT	_____	N30°25.95' /W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' /W085°59.25'
VPMAI	_____	N30°50.02' /W084°56.63'
VPMOB	_____	N30°23.00' /W088°31.72'
VPRAM	_____	N30°18.95' /W089°35.88'
VPRER	_____	N30°13.87' /W085°20.67'
VPRIV	_____	N30°54.85' /W087°57.82'
VPSAW	_____	N30°49.65' /W089°07.42'
VPTHR	_____	N30°19.93' /W087°08.50'

## NEW YORK HELICOPTER CHART

VPJAY	_____	N40°59.00' /W073°07.00'
VPLYD	_____	N40°57.37' /W073°29.59'
VPROK	_____	N40°52.70' /W073°44.24'

## PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' /W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' /W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' /W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' /W111°59.08'
VPAMZ	ARIZONA MILLS	N33°23.43' /W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' /W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' /W111°50.37'
VPCLN	CANAL	N33°33.23' /W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35' /W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' /W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' /W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' /W112°13.00'
VPMAR	MARICOPA	N33°03.42' /W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' /W111°49.58'
VPNRV	NEW RIVER	N33°55.08' /W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' /W111°55.83'
VPPIR	PIR	N33°22.52' /W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' /W112°23.58'
VPRVC	RIO VERDE COMMUNITY	N33°44.37' /W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' /W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' /W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' /W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' /W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' /W111°59.67'
VPZZZ	_____	N33°20.18' /W111°26.53'

## ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' /W090°22.42'
VPBPE	_____	N38°23.80' /W090°20.38'
VP CJY	HOLIDAY SHORES	N38°55.00' /W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' /W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' /W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' /W090°11.55'
VPEDZ	WATER TANKS	N38°45.30' /W090°34.87'
VPEGR	GAS TANKS	N38°35.80' /W090°19.32'
VPEOX	ST PETERS	N38°47.17' /W090°39.25'

478		VFR WAYPOINTS
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00' /W090°43.00
VPFFY	_____	N38°55.37' /W090°17.30
VPGPF	_____	N38°35.60' /W090°26.92
VPGVI	_____	N38°32.30' /W090°27.80
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88' /W090°10.42
VPIBO	WATERLOO	N38°20.00' /W090°09.00
VPJMU	HORSESHOE LAKE	N38°41.00' /W090°05.00
VPKNY	PACIFIC	N38°29.00' /W090°44.00
VPLES	ST CHARLES	N38°47.00' /W090°30.00
VPLIW	SIX FLAGS	N38°30.67' /W090°40.47
VPLXU	GATEWAY ARCH	N38°37.50' /W090°11.00
VPNSY	WOOD RIVER REFINERIES	N38°50.00' /W090°05.00
VPNZY	WENTZVILLE	N38°48.83' /W090°50.98
VPRAZ	JERSEYVILLE	N39°07.00' /W090°20.00
VPRMO	FOREST PARK	N38°38.00' /W090°17.00
VPWKO	COLUMBIA	N38°27.00' /W090°12.00
VPXXI	MILLSTADT	N38°27.50' /W090°05.68
VPYID	MOSENTHEIN ISLAND	N38°43.00' /W090°12.25

### SALT LAKE CITY HELICOPTER CHART

VPAIR	SALT AIR	N40°44.85' /W112°11.22
VPBEE	SOUTH INTERCHANGE	N40°38.18' /W111°54.23
VPBRN	BARN	N40°54.28' /W112°10.15
VPCAP	STATE CAPITOL	N40°46.67' /W111°53.25
VPCHS	_____	N40°42.28' /W112°05.92
VPCOP	BINGHAM COPPER MINE	N40°31.38' /W112°09.00
VPCWY	CAUSEWAY	N41°05.37' /W112°07.17
VPCYN	PARLEYS CANYON	N40°42.67' /W111°48.10
VPFPC	FREE PORT CENTER	N41°05.92' /W112°02.27
VPFPK	FRANCIS PEAK	N41°01.98' /W111°50.30
VPGFS	GARFIELD STACK	N40°43.28' /W112°11.88
VPHVE	SPAGHETTI BOWL	N40°43.50' /W111°54.22
VPJRT	JORDAN RIVER TEMPLE	N40°35.02' /W111°55.58
VPKSL	KSL ANTENNA	N40°46.80' /W112°05.80
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08' /W111°53.57
VPMDH	MCKAY DEE HOSPITAL	N41°11.50' /W111°57.08
VPMMT	MICROWAVE TOWERS	N40°48.50' /W111°53.37
VPMSH	_____	N41°01.67' /W112°02.47
VPNSL	_____	N40°50.15' /W111°54.90
VPNTP	_____	N41°03.57' /W112°14.23
VPOGE	GRAIN ELEVATOR	N41°13.13' /W112°00.45
VPOPS	POWER STATION	N41°20.38' /W112°02.78
VPPEN	STATE PRISON	N40°29.88' /W111°53.62
VPPPT	PROMONTORY POINT	N41°12.28' /W112°25.73
VPPTM	POINT OF THE MOUNTAIN	N40°27.42' /W111°54.83
VPPVO	PROVO CANYON	N40°18.77' /W111°39.45
VPRWY	_____	N40°48.48' /W112°00.33
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83' /W111°54.85
VPTIP	SOUTH TIP	N40°50.93' /W112°10.92
VPWBR	WEBER CANYON	N41°08.17' /W111°54.83
VPWBT	_____	N40°38.00' /W112°03.33

### SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALT AIR	N40°44.85' /W112°11.22
VPBEE	SOUTH INTERCHANGE	N40°38.18' /W111°54.23
VPBRN	BARN	N40°54.28' /W112°10.15
VPCAP	STATE CAPITOL	N40°46.67' /W111°53.25
VPCHS	_____	N40°42.28' /W112°05.92
VPCOP	BINGHAM COPPER MINE	N40°31.38' /W112°09.00
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30' /W111°53.43
VPCWY	CAUSEWAY	N41°05.37' /W112°07.17
VPCYN	PARLEYS CANYON	N40°42.67' /W111°48.10
VPFPC	FREE PORT CENTER	N41°05.92' /W112°02.27
VPFPK	FRANCIS PEAK	N41°01.98' /W111°50.30
VPGFS	GARFIELD STACK	N40°43.28' /W112°11.88



WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50' / W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02' / W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80' / W112°05.80'
VLGN	LAGOON AMUSEMENT PARK	N40°59.08' / W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50' / W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50' / W111°53.37'
VPMSH	_____	N41°01.67' / W112°02.47'
VPNSL	_____	N40°50.15' / W111°54.90'
VPNTP	_____	N41°03.57' / W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13' / W112°00.45'
VPOPS	POWER STATION	N41°20.38' / W112°02.78'
VPPEP	STATE PRISON	N40°29.88' / W111°53.62'
VPPTT	PROMONTORY POINT	N41°12.28' / W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42' / W111°54.83'
VPVVO	PROVO CANYON	N40°18.77' / W111°39.45'
VPRWY	_____	N40°48.48' / W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83' / W111°54.85'
VP TIP	SOUTH TIP	N40°50.93' / W112°10.92'
VP UOU	U OF U EVENTS CENTER	N40°45.73' / W111°50.28'
VPWBR	WEBER CANYON	N41°08.17' / W111°54.83'
VPWBT	_____	N40°38.00' / W112°03.33'
VPZOO	HOGLE ZOO	N40°45.00' / W111°48.95'

## SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62' / W117°42.87'
VPLSP	SIGNAL PEAK	N33°36.33' / W117°48.63'
VPOCN	_____	N33°14.15' / W117°26.63'
VPSBC	BARONA CASINO	N32°56.25' / W116°52.60'
VPSBL	_____	N33°05.18' / W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87' / W117°07.00'
VPSCF	_____	N32°48.55' / W117°09.17'
VPSCM	COWLES MOUNTAIN	N32°48.72' / W117°01.97'
VPSCP	CRYSTAL PIER	N32°47.77' / W117°15.42'
VPSCR	_____	N32°39.37' / W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25' / W116°57.33'
VPSLJ	LAKE JENNINGS	N32°51.53' / W116°53.28'
VPSMB	_____	N32°45.57' / W117°12.22'
VPSMP	_____	N33°22.70' / W117°36.75'
VPSMS	MOUNT SOLEDAD	N32°50.40' / W117°15.10'
VPSMV	_____	N32°45.75' / W117°09.80'
VPSMW	MOUNT WOODSON	N33°00.52' / W116°58.23'
VPSOP	OTAY MESA PRISON	N32°35.82' / W116°55.28'
VPSOT	LOWER OTAY LAKE	N32°37.73' / W116°55.38'
VPSPL	SOUTH POINT LOMA	N32°39.90' / W117°14.55'
VPSPP	POWER PLANT	N33°08.25' / W117°20.23'
VPSQS	QUALCOMM STADIUM	N32°46.98' / W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58' / W117°15.95'
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78' / W116°56.18'
VPSSV	SAN VICENTE ISLAND	N32°55.53' / W116°55.00'
VPSTP	TORREY PINES GOLF COURSE	N32°54.17' / W117°14.68'
VPSVA	_____	N33°11.48' / W117°16.38'

## SAN FRANCISCO SECTIONAL CHART

VPKBG	KINGSBURY GRADE	N38°58.75' / W119°53.20'
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## SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35' / W121°35.42'
VPANT	ANTIOCH BRIDGE	N38°01.45' / W121°45.02'
VPBBR	BENICIA BRIDGE	N38°02.50' / W122°07.45'
VP CAL	CALAVERAS RESERVOIR	N37°28.16' / W121°48.93'
VP CBT	LAKE CHABOT	N37°43.68' / W122°06.94'
VP COY	COYOTE HILLS	N37°32.50' / W122°05.06'
VP CQZ	CARQUINEZ BRIDGE	N38°03.66' / W122°13.52'
VP CRL	_____	N37°11.00' / W121°41.06'
VP CRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56' / W122°21.10'

## WAYPOINT IDENT

VPCSH  
VPDAM  
VPDLR  
VPDUB  
VPEMB  
VPGGF  
VPGIL  
VPHHH  
VPKGO  
VPLEX  
VPMID  
VPMOR  
VPNUM  
VPPAC  
VPPRU  
VPSAR  
VPSLA  
VPSTB  
VPSUN  
VPUTC  
VPWAL  
VPWAM  
VPWFR

## COLLOCATED VFR CHECKPOINT

CAL STATE UNIVERSITY  
DEL VALLE DAM  
  
DUBLIN  
EMBASSY SUITES  
GOLDEN GATE FIELDS  
GILROY  
HAMILTON  
KGO  
LEXINGTON RESERVOIR  
MID-SPAN SAN MATEO BRIDGE  
MORMON TEMPLE  
NUMMI PLANT  
  
PRUNEYARD  
SARATOGA  
SLAC/LINEAR ACCELERATOR  
STINSON BEACH  
SUNOL GOLF COURSE  
U.T.C.  
WALNUT CREEK  
  
CEMENT PLANT

## LOCATION

N37°39.52'/W122°03.52'  
N37°36.91'/W121°44.78'  
N37°07.00'/W121°47.06'  
N37°42.06'/W121°55.36'  
N37°26.05'/W121°53.83'  
N37°53.07'/W122°18.71'  
N37°01.37'/W121°33.99'  
N38°03.58'/W122°30.66'  
N37°31.58'/W122°06.10'  
N37°11.66'/W121°59.18'  
N37°36.28'/W122°11.81'  
N37°48.46'/W122°11.95'  
N37°29.56'/W121°56.58'  
N37°38.00'/W122°32.07'  
N37°17.33'/W121°56.01'  
N37°15.26'/W122°02.33'  
N37°24.75'/W122°14.35'  
N37°54.45'/W122°40.41'  
N37°34.85'/W121°53.23'  
N37°13.93'/W121°41.35'  
N37°53.78'/W122°04.30'  
N37°30.28'/W122°10.00'  
N37°30.88'/W122°12.26'

## TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV  
VPCNY  
VPDAD  
VPDFI  
VPDUT  
VPEAR  
VPFFU  
VPGPE  
VPHUC  
VPKER  
VPLEV  
VPLJA

DADE CITY

CLEARWATER BEACH

ST PETE BEACH

LAKE PARKER

N27°57.00'/W080°46.75'  
N28°30.00'/W080°45.00'  
N28°22.57'/W082°11.25'  
N29°00.17'/W081°20.85'  
N27°37.70'/W082°09.10'  
N27°58.67'/W082°49.83'  
N28°57.08'/W081°00.33'  
N27°43.50'/W082°44.67'  
N28°19.87'/W082°43.77'  
N28°04.00'/W081°56.00'  
N28°48.00'/W080°52.00'  
N29°00.00'/W080°51.00'

## WASHINGTON SECTIONAL CHART

VPACE  
VPAXI  
VPBRA  
VPGCE  
VPWZO

N38°07.82'/W076°48.75'  
N38°34.57'/W076°20.38'  
N36°13.75'/W076°08.08'  
N36°03.90'/W076°36.42'  
N36°00.87'/W075°40.07'

# VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

## ALABAMA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Brookley (Mobile Downtown)</b> .....	112.8/BFM	G	313	1.68	On runup area for rwy 14. VOR grand receiver checkpoint OTS indef.
<b>Cairns AAF (Fort Rucker)</b> .....	111.2/OZR	G	066	1.0	On runup pad Twy F.
<b>Enterprise Muni</b> .....	116.6/EDN	A/2000	341	7.4	Red/white twr.
<b>Monroeville</b> (Monroe Co Arpt) .....	116.8/MVC	G	196	0.6	Rwy 03 runup area/turnaround pad.
<b>Montgomery</b> (Montgomery Rgnl/ Dannelly Field) .....	112.1/MGM	G	318	6.2	On Twy C north of Twy A.
<b>Talladega Muni</b> .....	108.8/TDG	A/2000	084	9.0	Over center of segmented circle.
<b>Crimson</b> (Tuscaloosa Rgnl) .....	117.8/LDK	G	238	4.2	On centerline of Twy midway between ramp and rwy.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Birmingham-Shuttlesworth Intl</b> .....	110.0	G	
<b>Huntsville Intl-Carl T Jones Fld</b> .....	111.0	G	

## FLORIDA VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Cypress</b> (Naples Muni) .....	108.6/CYY	G	121	0.6	On runup area Rwy 32.
<b>Crestview</b> (Bob Sikes) .....	115.9/CEW	A/1200	106	8.6	Over rotating bcn.
<b>Lakeland Linder Rgnl</b> .....	116.0/LAL	G	038	0.5	On NE end of Twy C.
<b>Melbourne Intl</b> .....	116.0/LAL	G	283	1.1	On Twy A-1.
<b>Melbourne Intl</b> .....	110.0/MLB	G	184	0.6	SW corner of arpt at intersection of Twy C and D.
<b>Ocala Intl-Jim Taylor Fld</b> .....	113.7/OCF	G	167	1.0	On taxiway E adjacent to E9.
<b>Orlando</b> (Executive) .....	112.2/ORL	G	324	.5	On Twy E near AER 13.
		G	311	.5	On Twy H near AER 13.
		G	45	.6	On E ramp near Twy A-3.
<b>Pahokee</b> (Palm Beach Co Glades) .....	115.4/PHK	A/1500	022	13	Over radio twr at intersection of 2 canals.
<b>Panama City-Bay Co Intl</b> .....	114.3/PFN	G	190	0.5	Main terminal ramp.

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VOR RECEIVER CHECK

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd.	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		AB/ALT			
St. Petersburg–Clearwater Intl .....	116.4/PIE	G	154	0.6	Rwy 32 run-up/Twy G.
		G	208	0.6	Rwy 5 run-up/Twy D.
		G	046	0.4	On circle located NE end of Twy M.
Vero Beach Muni .....	117.3/VRB	G	111	4.4	Runup area Rwy 29R.
		G	114	4	Compass rose on taxiway E.
		G	116	3.6	Runup area Rwy 11R.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility			Remarks
Daytona Beach Intl .....	111.0	G			Unuseable E of Twy F.
Jacksonville Intl .....	111.0	G			
Miami Intl .....	112.0	G			
Palm Beach Intl .....	109.0	G			
Tallahassee Rgnl .....	111.0	G			
Tampa Intl .....	111.0	G			

GEORGIA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd.	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		AB/ALT			
Athens (Madison Muni) .....	109.6/AHN	A/2000	199	21	Over center of rwy.
Athens (Athens/Ben Epps) .....	109.6/AHN	G	284	0.5	Twy A2.
Atlanta (DeKalb–Peachtree) .....	116.6/PDK	G	004	0.5	On runup area Rwy 20L.
					VOR ground checkpoint unavailable.
		G	218	0.5	On runup area Rwys 02L and 02R.
Brunswick (Malcolm McKinnon) .....	109.8/SSI	A/1050	029	7.2	Over rotating bcn.
Columbus Metropolitan .....	117.1/CSG	G	146	7.1	FBO ramp in front of ASOS equipment.
Dublin (W H ‘Bud’ Barron) .....	113.1/DBN	G	270	7.6	Ramp.
Foothills (Toccoa RG Letourneau Fld) .....	113.4/ODF	A/2000	179	6	Over rotating bcn.
Hunter .....	111.6/SVN	A/1500	090	15.5	Over lighthouse.
Hunter AAF .....	111.6/SVN	G	271	1.2	On Twy 6.
Lawson AAF .....	111.4/LSF	G	356	.6	On painted circle at taxiway intersection
					580’ NW of twr.
Macon .....	114.2/MCN	A/2000	028	13.6	Over oil tank.
		A/2000	320	9.5	Over dam.
Pecan (Southwest Georgia Rgnl) .....	116.1/PZD	A/1000	145	9	Over rotating bcn E side of
					arpt.
Rome (Richard B Russel) .....	115.4/RMG	G	348	11.5	At intersection of twy 200’ S of terminal building.
					VOR ground checkpoint unavailable.
Savannah .....	112.7/SAV	A/1500	097	19.6	Over red and white lighthouse.
Valdosta Rgnl .....	114.8/OTK	G	131	0.6	On taxiway at apch end rwy 35.
Vienna (Crisp County–Cordele) .....	116.5/VNA	A/1300	226	19	Over center of NE/SW rwy.
Waycross–Ware Co. ....	110.2/AYS	A/1200	099	8	Over fire twr W side arpt.

# VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Atlanta</b> (Hartsfield–Jackson Atlanta Intl) ..	111.0	G	VOT OTS indef.
(Atlanta Muni).....	111.0	G	
<b>Brunswick Golden Isles</b> .....	111.0	G	
<b>Savannah/Hilton Head Intl</b> .....	111.0	G	

## KENTUCKY

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Central City</b> (Muhlenberg Co) .....	109.8/CCT	A/2500	153	10.6	Over intersection of Rwy 23 and central taxiway.
<b>Clarksville</b> (Campbell AAF) .....	110.6/CKV	G	307	4.9	On taxiway 6 center romeo helipad.
<b>Clarksville</b> (Hopkinsville–Christian Co).....	110.6/CKV	A/2000	345	13.5	Over hangar.
<b>Fort Knox</b> (Godman AAF).....	109.6/FTK	A/2000	270	9.2	W of Godman AAF over a 298 ft twr.
<b>Frankfort</b> (Capital City) .....	109.4/FFT	G	082	.7	Runup pad Rwy 24.
<b>London</b> (London–Corbin Arpt–Magee Fld) .....	116.1/LOZ	G	033	3.8	On parking ramp taxiway entry.
<b>Owensboro–Daviess Co.</b> .....	108.6/OWB	G	176	.7	On taxiway at apch end Rwy 36.

# VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Louisville Intl–Standiford Fld</b> .....	111.0	G	

## Type

## VOR TEST FACILITIES (VOT)

## SOUTH CAROLINA

## VOR RECEIVER CHECKPOINTS

## VOR TEST FACILITIES (VOT)

SE. 23 SEP 2010 to 18 NOV 2010

# TENNESSEE

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Hinch Mountain</b> (Crossville Memorial–Whitson Fld) .....	117.6/HCH	A/2900	336	11	Over metal hangar.
	117.6/HCH	G	335	11.5	Runup area between taxiway and rwy at center of fld.
<b>Holston Mountain</b> (Tri–Cities Rgnl TN/VA) ...	114.6/HMV	G	286	13.7	On ramp S of terminal building.
<b>Jackson</b> (McKellar–Sipes Rgnl) .....	112.0/MKL		256	0.6	At south end of ramp at fire station.
<b>Nashville</b> (Lebanon Muni) .....	114.1/BNA	A/2000	082	18	Over midfield.
<b>Tulahoma Rgnl/Wm Northern Fld</b> .....		A/1800	003	5.0	Over Normandy Dam.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Knoxville</b> (McGhee–Tyson) .....	112.0	G	
<b>Memphis Intl</b> .....	111.0	G	
<b>Nashville Intl</b> .....	108.6	G	
<b>Smyrna</b> .....	110.2	G	

# PUERTO RICO

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Borinquen</b> (Rafael Hernandez) .....	113.5/BQN	G	271	2.2	On apch end of Rwy 08.

# VIRGIN ISLANDS

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Saint Thomas</b> (Cyril E. King) .....	108.6/STT	G	118	3.5	On taxiway North of Main ramp. VOR gnd checkpoint unusable.

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>ALABAMA</b>			
Allen Army Heliport .....	11 NM; 253° Wiregrass .....	12,500	1 NM radius. SR-SS weekends and holidays.
(c) Bayou La Batre, Roy E. Ray Arpt. ....	12 NM; 217° Brookley .....	12,500	Daily SR-SS
Bessemer, Old Bessemer Arpt .....	16 NM; 057° Brookwood .....	10,000	1030-SS weekends
(c) Cullman, Folsom Fld Arpt. ....	36 NM; 001° Vulcan .....	14,500	3 NM radius. SR-SS Sat-Sun, other times by NOTAM.
(c) Dothan, Hatch Army Heliport .....	10.3 NM; 290° Wiregrass .....	12,500 AGL	1 NM SR-SS weekends and holidays.
(c) Elberta, Horak Arpt. ....	11 NM; 268° Sauflay .....	14,000	Daily 0700-1/2 hour after SS.
Ellis Drop Zone .....	15 NM; 220° Decatur .....	1,500	0.4 NM radius. Occasional use
Eutaw Muni Arpt. ....	30 NM; 200° Crimmon .....	13,000 AGL	Weekends and holidays
Gadsden, Northeast Alabama Rgnl Arpt. .	3 NM; 230° Gadsden .....	14,000	Weekends and holidays 0900-SS.
Harvest, Epps Arpk. ....	9 NM; 297° Rocket .....	13,500	Daily SR-SS
(c) Hazel Green .....	7 NM; 355° Rocket .....	14,000	7 NM radius. Daily SR-SS. Occasional night use.
Headland Muni Arpt .....	8 NM; 070° Wiregrass .....	15,000	Weekdays 1200-SS; Sat-Sun, and holidays SR-SS
Jones Drop Zone .....	6 NM; 276° Rocket .....	1,500	0.25 NM radius. Occasional use
Kilby Drop Zone .....	13 NM; 014° Montgomery .....	1,500	0.2 NM radius. Occasional use
Moundville Arpt. ....	18 NM; 198° Tuscaloosa	12,000 AGL	5 NM radius. 0900-SS on weekends, occasionally weekdays by Notam.
Pinson, Industrial Park .....	12 NM; 085° Vulcan .....	10,500	0800-SS Sat-Sun, occasionally weekday and ngt use.
Prattville-Grouby Fld Arpt .....	17 NM; 300° Montgomery .....	2,000	10NM radius. For specific times call 334-953-7325.
Redstone Drop Zone .....	9 NM; 220° Rocket .....	1,500	0.2 NM radius. Occasional use
Renda Drop Zone .....	8 NM; 234° Talladega .....	1,500	0.25 NM radius. Occasional use
Tac Runkle Drop Zone .....	19 NM; 280° Cairns .....	3,500 AGL	Occasional use
Tommy Drop Zone .....	17 NM; 235° Montgomery .....	1,500	0.2 NM radius. Occasional use
(c) Tuskegee, Moton Fld Muni .....	2 NM; 198° Tuskegee .....	12,500	3 NM radius. Occasionally on weekends.
Vincent .....	37 NM; 130° Vulcan .....	10,000	5 NM radius. Weekends 0900-SS.
Warrior .....	11 NM; 350° Vulcan .....	12,500	Daily SR-SS
Weaver, McMinn Arpt .....	15 NM; 047° Talladega .....	12,500	1 NM radius. Daily SR-SS, occasional night use.
(c) Wetumpka Muni .....	18 NM; 356° Montgomery .....	10,000	Daily SR-SS
<b>FLORIDA</b>			
Arcadia Muni. ....	23 NM; 311° Labelle .....	15,000	5 NM radius. SR-SS daily, occasional ngt use.
Avon Park Executive Arpt .....	30 NM; 138° Lakeland .....	4,000	4 NM radius. Daily SR-SS
Brandon, Sod Farm .....	16 NM; 255° Lakeland .....	15,000	0830-1830 weekends
Chassahowitzka Drop Zone .....	38 NM; 010° St. Petersburg .....	4,000	0.25 NM radius. Occasional use

# PARACHUTE JUMPING AREAS

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LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Clewiston, Airglades Arpt.....	19 NM; 097° LaBelle.....	13,500	1 NM radius. Daily SR-SS
(c) Coleman, Freeflight Arpt.....	24 NM; 155° Ocala.....	15,000	3 NM radius. Daily SR-SS.
(c) Deland Muni-Sidney H Taylor Fld....	17 NM; 210° Ormond Beach.....	15,000	1 NM radius. SR-SS Sat, Sun, occasionally weekdays.
Englewood, Buchan Arpt.....	27 NM; 158° Sarasota.....	15,000 AGL	2 NM radius. Sunday 1000-SS
Florabama Drop Zone.....	16 NM; 216° Saufley.....	14,000	2 NM radius. Fri-Sun 0830-SS.
(c) Homestead General Aviation.....	22 NM; 218° Dolphin.....	15,000	5 NM radius. 24 hrs daily.
Jacksonville, Herlong Arpt.....	15 NM; 255° Craig.....	15,000	1 NM radius. Daily SR-SS with prior notification to JAX APP CON.
Key West.....	1 NM; 095° Key West.....	7,000	0.2 NM radius. Occasional use.
(c) La Belle, Sundance Farms Arpt.....	5.4 NM; 245° La Belle.....	12,500	1 NM radius. Daily SR-SS.
(c) Lake Wales Muni.....	21 NM; 104° Lakeland.....	18,000	7 NM radius, 24 hrs daily. <b>Miami Center 127.2</b>
(c) MacDill AFB.....	11 NM; 110° St. Petersburg.....	10,000	0600-1100 Sun. Over Rwy 31
(c) Myakka City.....	18 NM; 097° Sarasota.....	12,500	5 NM radius, 24 hrs daily
(c) New Smyrna Beach, Massey Ranch Airpark.....	22 NM; 150° Ormond Beach.....	15,000	1 NM radius SR-SS weekends, occasionally weekdays.
(c) Palatka Muni-Lt. Kay Larkin Fld.....	36 NM; 079° Gators.....	12,500	3 NM radius. Daily, SR-SS
(c) Pahokee, Palm Beach Co Glades Arpt.....	at Pahokee.....	17,500	3 NM radius, 0800-1800 daily.
(c) Quincy Muni Arpt.....	10 NM; 288° Seminole.....	15,000	Daily SR-SS
St. Augustine.....	35 NM; 159° Craig.....	12,500	Sat-Sun occasionally weekdays
(c) Sebastian Muni.....	8 NM; 001° Vero Beach.....	14,000	2 NM radius. Daily SR-SS.
(c) Shell Creek Airpark.....	27.5 NM; 347° Lee County.....	13,000	1 NM radius. SR-SS weekends, holidays.
(c) Skydive Live Arpt.....	24 NM; 075° Crestview.....	13,000	3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM.
(c) Sugar Loaf Shores Arpt.....	13 NM; 071° Key West.....	14,000	2 NM radius. SR-SS.
Sun City.....	22 NM; 123° St. Petersburg.....	12,500	
(c) Titusville, Arthur Dunn Air Park.....	33 NM; 341° Melbourne.....	13,500	1 NM radius, SR-SS daily.
(c) Umatilla Muni Arpt.....	29 NM; 327° Orlando.....	13,000 AGL	2 NM radius. SR-SS. Occasional night use.
Wakulla Co Arpt.....	35 NM; 180° Seminole.....	13,500	3 NM radius. SR-SS weekends occasionally weekdays.
(C) Williston Muni Arpt.....	22 NM; 210° Gators.....	11,000	<b>Tallahassee Rgnl Tower 135.8</b>
(c) Zephyrhills Muni.....	16 NM; 330° Lakeland.....	20,000	2.5 NM radius. SR-SS Fri, Sat and Sun. <b>Jacksonville Center 118.6</b>
<b>GEORGIA</b>			
Bunker Hill Drop Zone.....	10 NM; 233° Harris.....	8,000	1 NM radius. SR-1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.
(c) Cedartown, Polk Co Arpt-Cornelius Moore Fld.....	9 NM; 188° Rome.....	15,000	3 NM radius. SR-SS daily, occasionally nights.
Claxton-Evans Co Arpt.....	33.6 NM; 276° Savannah.....	7,500	0900-SS Sat and Sun
(c) Dahlonega, Lumpkin County Arpt, Wimpy Drop Zone.....	23 NM; 193° Harris.....	15,000	1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft.
Dahlonega Highway 76 Drop Zone.....	11 NM; 231° Harris.....	3,000	Occasional use.
Fort Benning, Box Spring Drop Zone.....	24.5 NM; 116° Columbus.....	3,000	Occasional use.
Fort Benning, Eelbeck Drop Zone.....	17.5 NM; 131° Columbus.....	3,000	Occasional use.
(c) Fort Benning, EuBanks Drop Zone....	16 NM; 171° Columbus.....	12,500	Daily 0500-1900
(c) Fort Benning, Fryar Field Drop Zone.....	22.5 NM; 168° Columbus.....	13,000	0.5 NM radius, Continuous.
(c) Fort Benning, Gardner Drop Zone.....	17 NM; 171° Columbus.....	12,500	Daily 0500-1900
Fort Benning, Lawson AAF (Fort Benning).....	1.8 NM; 046° Lawson.....	12,500	1 NM radius. Daily SR-SS
Fort Benning, Lae Drop Zone.....	21 NM; 166° Columbus.....	3,000	Occasional use
Fort Benning, Ledo Drop Zone.....	14 NM; 090° Lawson.....	3,000	Occasional use
Fort Benning, McKenna Drop Zone.....	10 NM; 080° Columbus.....	3,000	Occasional use
(c) Fort Benning, York Drop Zone.....	16 NM; 172° Columbus.....	12,500	Daily 0500-1900
Fort Valley, Miami Valley Farms Arpt....	12 NM; 220° Macon.....	14,000	1 NM radius, Daily 0900-SS
Locust Grove, Mallards Landing Arpt.....	17.5 NM; 118° Atlanta.....	13,500	Sat, Sun and holidays SR-SS. Occasional ngt jumps
(c) Monroe-Walton Co Arpt.....	22 NM; 242° Athens.....	13,500	5 NM radius. Daily 0800-2100.
Plantation Airpark, Moore Drop Zone....	36 NM; 332° Savannah.....	1,500 AGL	1 NM radius. Occasional use. Mass Military jumps from multiple acft.
(c) Rome, Richard B. Russell Arpt.....	11.3 NM; 349° Rome.....	15,000	5 NM radius. SR-SS Weekends.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
St Marys Arpt.....	19 NM; 203° Brunswick.....	12,000	2 NM radius. Daily 0700–1859.
Thomaston–Upson Co.....	35 NM; 296° Macon.....	14,500	1 NM radius. Sat–Sun occasionally weekdays.
Tifton, Henry Tift Myers, Arpt.....	1 NM; 090° Tift Myers.....	15,000	5 NM radius. Daily 0700–1800.
Waycross–Ware Co Arpt.....	8 NM; 100° Waycross.....	12,500	1 NM radius. Daily 1000–1600
Wilscott Drop Zone.....	14 NM; 245° Harris.....	8,000	1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.

## KENTUCKY

Elizabethtown, Addington Fld.....	12 NM; 285° New Hope.....	11,000	3 NM radius, SR–SS Weekends and noon–SS weekdays.
Elkton, Standard Fld.....	16 NM; 045° Clarksville.....	12,000	5 NM radius. Continuous.
(c) Flemingsburg, Fleming Mason Arpt.....	27 NM; 103° Falmouth.....	12,500	1 NM radius. SR–SS Sat–Sun and holidays.
Ft. Campbell, Bastogne Drop Zone.....	8 NM; 274° Clarksville.....	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Ft. Campbell, Corregidor Drop Zone.....	11 NM; 270° Clarksville.....	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Ft. Campbell, Los Banos Drop Zone.....	10 NM; 270° Clarksville.....	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Ft. Campbell, Suckchon Drop Zone.....	10 NM; 270° Clarksville.....	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Glasgow Muni Arpt.....	24 NM; 073° Bowling Green.....	8,000	5 mi radius. SR–SS weekends and holidays
(c) Greenville, Muhlenberg Co Arpt.....	10 NM; 149° Central City.....	13,500	5 mi. radius. Daily SR–SS.
	7 NM; 149° Central City.....	2,000	2 NM radius. Intermittent. Military use.
(c) Hopkinsville–Christian Co.....	14 NM; 352° Clarksville.....	14,500	3 NM radius, 0900–1600 Tue–Fri; occasional weekends.
Owensboro, Windy Hollow Drag Strip.....	6 NM; 205° Owensboro.....	8,000	2 NM radius. 0800–SS Sun, holidays occasionally other times

## NORTH CAROLINA

Erwin Arpt.....	22 NM; 030° Fayetteville.....	4,500	1 NM radius. Sat & Sun afternoons
(c) Fayetteville, Southern Comforts Arpt.....	9 NM; 220 Fayetteville.....	14,000	3 NM radius. Fri–Mon and holidays SR–SS.
Greensboro, Southeast Greensboro Arpt.....	18 NM; 115° Greensboro.....	12,000	1 NM radius. 0800–2000 Sat and Sun.
	8 NM; 339° Liberty.....	11,000	3 NM radius. 0800–1600 Fri–Sun.
Greenville.....	22 NM; 040° Kinston.....	15,500	Daily SR–SS.
(c) Jonesville, Swan Creek Arpt.....	27 NM; Barretts Mountain.....	15,000	3 NM radius. SR–SS daily, occasional night.
(c) Louisburg, North Raleigh.....	22 NM; 060° Raleigh–Durham.....	15,500	30 min before SR–30 min after SS daily. Occasional ngt.
(c) Luzon Drop Zone.....	13 NM; 152° Sandhills.....	17,500	0600–1900 Daily.
Mackall AAF.....	11 NM; 150° Sandhills.....	17,500	Continuous.
(c) Maxton, Laurinburg–Maxton Arpt.....	26 NM; 250° Fayetteville.....	13,500	0800–1700 Mon–Fri.
Mebane, Kimrey Arpt.....	29 NM; 296° Raleigh/Durham.....	12,000	1 NM radius. 0900–SS Weekends; occasionally other times.
Pinebluff.....	8.75 NM; 143° Sandhills.....	12,500	Sat, Sun and holidays. Weekdays on request.
(c) PK Airpark.....	17 NM; 280° Fayetteville.....	12,500 AGL	Continuous.
(c) Rocky Mount.....	9.5 NM; 285° Tar River.....	12,500	Sat, Sun and holidays 0900–SS.
Southport, Brunswick Co.....	27.2 NM; 209° Wilmington.....	12,000	3 NM radius. 0800–2100 daily.
Thomasville, Fairgrove Arpt.....	13 NM; 201° Greensboro.....	14,000	Weekends and holidays.
(c) Wallace, Henderson Fld.....	23 NM; 351° Wilmington.....	15,000 AGL	3 NM radius. Sat–Sun SR–SS.
Washington, Warren Fld.....	27.6 NM; 069° Kinston.....	14,999 AGL	2 NM radius. SR–SS daily, occasional night use.

## SOUTH CAROLINA

Beaufort County Arpt.....	38.25 NM; 067° Savannah.....	10,000	1.0 NM radius. Sat, Sun and holidays SR–SS.
(c) Chester Catawa Rgnl Arpt.....	16.5 NM; 223° Fort Mill.....	13,500 AGL	1 NM radius. Daily 0800–SS.
Clemson– Oconee Co. Arpt.....	14 NM; 343° Electric City.....	12,000	Daily SR–SS.
Columbia, Fort Jackson.....	10 NM; 020° Columbia.....	10,000	1 NM radius. Weekends, occasional weekdays.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Green Sea Arpt.....	25 NM; 330° Grand Strand.....	15,000	3 NM radius. Weekends and occasional weekdays SR-SS.
(c) Loris, Twin City Arpt.....	15 NM; 340° Grand Strand.....	12,000	Weekends, holidays 0800-SS.
(c) North AF Aux Arpt .....	15 NM; 186° Columbia .....	2,000	½ NM radius. Mon-Fri 0800-2200. Military personnel and heavy equipment.
St George Arpt.....	17 NM; 192° Vance.....	17,900	SR-1 hr after SS.
Timmonsville, Huggins Arpt .....	14 NM; 247° Florence .....	12,500	Daily SR-SS.
(c) Walterboro, Lowcountry Rgnl Arpt ...	30.5 NM; 275° Charleston .....	12,500 AGL	Weekends.
<b>TENNESSEE</b>			
Campbell Co. ....	28.9 NM; 336° Volunteer .....	13,500	2 NM radius. 0800-one hr byd SS.
Chattanooga .....	13 NM; 087° Choo Choo .....	10,000	Continuous.
Clarksville, Outlaw Fld.....	Over Clarksville.....	14,000 AGL	4 NM radius. Daily SR-SS, occasional nghts.
Crossville Meml-Whitson Fld.....	11.5 NM; 335° Hitch Mountain..	14,500	1 NM radius. Daily SR-1 hr after SS, occasional nights.
(c) Dunlap .....	30 NM; 335° Choo Choo .....	9,000	5 NM radius. SR-SS Daily.
Fort Campbell, Son Drop Zone.....	4.1 NM; 302° Clarksville.....	12,500	Daily.
Livingston Arpt .....	13 NM; 212° Livingston .....	12,500	Weekends.
(c) Paris, Henry Co. ....	44.3 NM; 357° Jacks Creek .....	13,500	5 NM radius. Daily SR-SS.
Sevierville, Seymour Airpark.....	10 NM; 133° Volunteer.....	13,500	3 NM radius. Weekends SR-SS.
(c) Somerville, Wings .....	26 NM; 210° McKellar .....	14,000 AGL	2 NM radius. Weekends 0700-SS. Occasional ngt jumps.
Tullahoma Rgnl Arpt/WM Northern Fld ...	14.1 NM; 139° Shelbyville .....	15,000	5 NM radius. SR-SS primarily weekends with occasional nights.
Whifferdill.....	25 NM; 303° Nashville	11,500	2 NM radius. Weekends SR-SS.
<b>PUERTO RICO</b>			
(c) Arecibo, Antonio/Nery/Juarbe Pol Arpt .....	25 NM; 105° Borinquen .....	12,500	0600-1800 weekends & holidays.
(c) Humacao Arpt .....	20.9 NM; 159° San Juan .....	15,000	2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS.
<b>VIRGIN ISLANDS</b>			
St. Croix, Ordinance Drop Zone.....		2,000	0700-1400 Mon-Fri. 5 NM radius from 17°49'N 064°52'W.
St. Thomas, Cyril E. King No. 1 .....	6.5 NM; 118° St. Thomas .....	15,000	
St. Thomas, Cyril E. King No. 2 .....	10.4 NM; 110° St. Thomas .....	15,000	

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The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

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## ATLANTA SECTIONAL

### 85th Edition, 26 Aug 2010

#### OBSTRUCTIONS

**23 Sep 2010** Add obst 841'MSL (260'AGL)UC, 32°40'34"N, 85°55'14"W.  
Add obst 429'MSL (255'AGL), 32°16'09"N, 87°41'39"W.

#### AIRPORTS

**23 Sep 2010** No Major Changes.

#### NAVAIDS

**23 Sep 2010** No Major Changes.

#### AIRSPACE

**23 Sep 2010** Revise CLEMSON, SC Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Clemson-Oconee County Airport.

Revise PICKENS, SC Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of the Pickens County Airport and within 3.6 miles each side of the 044° bearing from the airport, extending from the 6.5-mile radius to 11 miles northeast of the airport.

#### SPECIAL USE AIRSPACE

**23 Sep 2010** No Major Changes.

#### MILITARY TRAINING ROUTES

**23 Sep 2010** No Major Changes.

#### MISCELLANEOUS

**23 Sep 2010** No Major Changes.

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## ATLANTA TERMINAL AREA CHART

### 82nd Edition, 26 Aug 2010

#### OBSTRUCTIONS

**23 Sep 2010** No Major Changes.

#### AIRPORTS

**23 Sep 2010** No Major Changes.

#### NAVAIDS

**23 Sep 2010** No Major Changes.

#### AIRSPACE

**23 Sep 2010** No Major Changes.

#### SPECIAL USE AIRSPACE

**23 Sep 2010** No Major Changes.

#### MILITARY TRAINING ROUTES

**23 Sep 2010** No Major Changes.

#### MISCELLANEOUS

**23 Sep 2010** No Major Changes.

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## CHARLOTTE SECTIONAL

### 88th Edition, 29 Jul 2010

**OBSTRUCTIONS****29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 2013' MSL (300' AGL) UC, 35°54'29"N, 81°16'14"W.

Add obst 334' MSL (310' AGL) UC, 33°30'50"N, 79°22'40"W.

Add obst 399' MSL (285' AGL) UC, 33°49'32"N, 80°44'48"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 433' MSL (310' AGL), 33°45'34"N, 80°17'09"W.

Add obst 377' MSL (310' AGL), 33°40'23"N, 79°43'57"W.

Add obst 434' MSL (310' AGL), 33°50'08"N, 80°11'20"W.

Add obst 226' MSL (220' AGL), 36°13'42"N, 76°08'05"W.

**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010** No Major Changes.**23 Sep 2010** Delete ORANGEBURG NDB, 33°25'05"N, 80°54'21"W.**AIRSPACE****29 Jul 2010** No Major Changes.**23 Sep 2010** Revise SMITHFIELD, NC Class E: That airspace extending upward from 700 feet above the surface within a 6.5 mile radius of the Johnston County Airport and within 2 miles each side of the 023° bearing from the airport extending from the 6.5 mile radius to 10.2 miles northeast of the Johnston County Airport.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

## CHARLOTTE TERMINAL AREA CHART

### 43rd Edition, 29 Jul 2010

**OBSTRUCTIONS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

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**CINCINNATI SECTIONAL**  
**84th Edition, 1 Jul 2010****OBSTRUCTIONS****29 Jul 2010** Add obst 2206' MSL (310' AGL), 37°16'09"N, 82°55'58"W.

Add obst 2556' MSL (304' AGL) UC, 38°57'53"N, 80°01'49"W.

Add obst 1190' MSL (317' AGL) UC, 39°06'36"N, 82°41'29"W.

Change obst from 2110' MSL (260' AGL) to 2210' MSL (260' AGL), 36°23'13"N, 84°20'11"W.

**23 Sep 2010** Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.

Add obst 1804' MSL (355' AGL), 37°27'37"N, 79°59'39"W.

Add obst 1393' MSL (285' AGL), 36°35'10"N, 80°08'07"W.

Add obst 927' MSL (257' AGL) UC, 36°24'41"N, 79°02'46"W.

Add obst 636' MSL (310' AGL), 36°24'11"N, 77°55'45"W.

Add obst 2052' MSL (315' AGL), 36°49'13"N, 83°19'44"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 1158' MSL (308' AGL) UC, 38°33'10"N, 82°23'38"W.

Add obst 1342' MSL (355' AGL) UC, 39°20'19"N, 78°45'27"W.

Add obst 1509' MSL (255' AGL) UC, 39°42'41"N, 80°07'17"W.

**AIRPORTS****29 Jul 2010** No Major Changes.**23 Sep 2010** Delete abandoned arpt symbol, 39°09'00"N, 80°12'00"W.

Delete abandoned arpt symbol, 37°06'00"N, 81°50'00"W.

Delete Kite arpt, 36°31'00"N, 82°44'00"W. Change RP 31 to RP \* at GRANT CO arpt, 38°59'00"N, 79°08'00"W.

Delete RP 18 at GREATER PORTSMOUTH RGNL arpt, 38°50'25"N, 82°50'50"W.

**NAVAIDS****29 Jul 2010** No Major Changes.**23 Sep 2010** Shutdown AZALEA PARK NDB, 38°00'36"N, 78°31'05"W.

Delete COGAN NDB, 39°05'11"N, 78°04'06"W.

**AIRSPACE****29 Jul 2010** No Major Changes.**23 Sep 2010** Revise Mount Airy, NC Class E: That airspace extending upward from 700 feet above the surface within a 9-mile radius of the Mount Airy-Surry County Airport and within 3.9 miles each side of the 353° bearing from the airport extending from the 9-mile radius to 15.3 miles north of the Mount Airy-Surry County Airport.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

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**CINCINNATI TERMINAL AREA CHART**  
**23rd Edition, 1 Jul 2010****OBSTRUCTIONS****29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

**IFR GULF OF MEXICO CENTRAL****1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 3 Jun 2010** No Major Changes.**29 Jul 2010** Delete W-453.

Add W-148A Beginning at N29 36' 11"- W088 01' 30" to N28 51' 21"- W088 01' 30" to N29 00' 57"- W88 36'10" to N29 08' 46" - W088 45' 36" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25.0' - W088 54' 05.0' THEN 12NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N29 41' 20"-W088 38'33" TO THE POINT OF BEGINNING. Altitude: Surface to but not including 6000MSL; Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM; Weather: VFR-IFR, Controlling Agency: ZHU CNTR/FSS.

Add W-148B Beginning at N29 36' 11"- W088 01' 30" to N28 51' 21"- W088 01' 30" to N29 00' 57"- W88 36'10" to N29 08' 46" - W088 45' 36" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25.0' - W088 54' 05.0' THEN 12NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N29 41' 20"-W088 38'33" TO THE POINT OF BEGINNING. Altitude: 6000MSL to FL600; Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM; Weather: VFR-IFR; Controlling Agency: ZHU CNTR/FSS.

Add W453A Beginning at N30 09'16" - W88 01' 30" to N29 36' 11"-W088 01' 30.0" to N29 42' 51" - W088 49' 30'W Then 3 NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N30 06' 01" - W088 51' 00" to N30 11' 01.0' W088 41' 40.0' THEN 3 NM FROM AND PARALLEL TO THE SHORELINE TO THE POINT OF BEGINNING. Altitude: Surface to but not including 6000 MSL; Time of Use: Intermittent, DAYS, Other Times by NOTAM; Weather: VFR-IFR; Controlling Agency: ZMA CNTR/FSS.

Add W-453B Beginning at N30 09'16" - W88 01' 30" to N29 36' 11"-W088 01' 30.0" to N29 42' 51" - W088 49' 30'W Then 3 NM FROM AND PARALLEL TO THE CHANDELEUR ISLANDS to N30 06' 01" - W088 51' 00" to N30 06' 01" to N30 11' 01.0' W088 41' 40.0' THEN 3 NM FROM AND PARALLEL TO THE SHORELINE TO THE POINT OF BEGINNING. Altitude: 6000 MSL to FL600; Time of Use: Intermittent, DAYS, Other Times by NOTAM; Weather: VFR-IFR, Controlling Agency: ZMA CNTR/FSS.

Add Snake MOA Beginning at N29 42' 51.0"-W088 49' 30" to N29 41' 20.0 - W088 38'33" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25"-W088 54'05.0" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N 29 08' 46" - W088 45' 36".0 to N29 34' 32" - W089 21' 26" to N29 50' 00" W089 15' 00" to N29 56' 15" - W089 09' 00" to N30 06' 00" - W088 51' 00" then 3NM OFFSHORE OF THE CHANDELEUR ISLANDS TO THE POINT OF BEGINNING. Altitude: 6000 MSL to but not including FL180, Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM, Controlling Agency: ZHU CNTR/FSS.

Add Snake Low MOA Beginning at N29 42' 51.0"-W088 49' 30" to N29 41' 20.0 - W088 38'33" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N29 24' 25"-W088 54'05.0" THEN 12NM FROM AND PARALLEL TO THE SHORELINE to N 29 08' 46" - W088 45' 36.0 to N29 34' 32" - W089 21' 26" to N29 50' 00" W089 15' 00" to N29 56' 15" - W089 09' 00" to N30 06' 00" - W088 51' 00" then 3NM OFFSHORE OF THE CHANDELEUR ISLANDS TO THE POINT OF BEGINNING. Altitude: 3000MSL to but not including 6000MSL Time of Use: INTERMITTENT, DAYS, Other Times by NOTAM, Controlling Agency: ZHU CNTR/FSS.

**23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009** No Major Changes.**11 Feb 2010** Delete BUEKR Waypoint N 29°45' W 91°50'.**8 Apr 2010 – 3 Jun 2010** No Major Changes.**29 Jul 2010** 29 JUL 2010 Delete HOUSTON VERMILLION 120.35 RCAG Site N28 34' 00"- W92 27' 00".**23 Sep 2010** No Major Changes.

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**IFR GULF OF MEXICO WEST****1st Edition, 17 Dec 2009****OBSTRUCTIONS****17 Dec 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****17 Dec 2009 – 3 Jun 2010** No Major Changes.**29 Jul 2010** Change Brenham Muni (11R) to N30 13°10.8" - W096 22°27.85".**23 Sep 2010** No Major Changes.**NAVAIDS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Delete BRENHAM (BNH) NDB 30°13'20.6"N, 96°22'24.6"W.**3 Jun 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****17 Dec 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****17 Dec 2009 – 11 Feb 2010** No Major Changes.**8 Apr 2010** Change Name SITA to SARITA at HOUSTON RCAG 27°13'16"N, 97°47'56"W.**3 Jun 2010** No Major Changes.**29 Jul 2010** Delete HOUSTON VERMILLION 120.35 RCAG Site N28 34'00" - W92 27'00".**23 Sep 2010** Add South Padre Island AWOS-3 118.375 N26 04'15.96" - W097 27'84".

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**JACKSONVILLE SECTIONAL****86th Edition, 26 Aug 2010****OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** Delete FOLEY NDB, 29°59'46"N, 83°35'11"W.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** VR 1003 Revised, VR 1066 Revised**MISCELLANEOUS****23 Sep 2010** No Major Changes.

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**MEMPHIS SECTIONAL**  
**85th Edition, 23 Sep 2010**

**OBSTRUCTIONS**

**23 Sep 2010** No Major Changes.

**AIRPORTS**

**23 Sep 2010** No Major Changes.

**NAVAIDS**

**23 Sep 2010** No Major Changes.

**AIRSPACE**

**23 Sep 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**23 Sep 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**23 Sep 2010** No Major Changes.

**MISCELLANEOUS**

**23 Sep 2010** No Major Changes.

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**MEMPHIS TERMINAL AREA CHART**  
**43rd Edition, 23 Sep 2010**

**OBSTRUCTIONS**

**23 Sep 2010** No Major Changes.

**AIRPORTS**

**23 Sep 2010** No Major Changes.

**NAVAIDS**

**23 Sep 2010** No Major Changes.

**AIRSPACE**

**23 Sep 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**23 Sep 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**23 Sep 2010** No Major Changes.

**MISCELLANEOUS**

**23 Sep 2010** No Major Changes.

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**MIAMI SECTIONAL**  
**87th Edition, 26 Aug 2010**

**OBSTRUCTIONS**

**23 Sep 2010** No Major Changes.

**AIRPORTS**

**23 Sep 2010** No Major Changes.

**NAVAIDS**

**23 Sep 2010** No Major Changes.

**AIRSPACE**

**23 Sep 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**23 Sep 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**23 Sep 2010** No Major Changes.

**MISCELLANEOUS**

**23 Sep 2010** No Major Changes.

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**MIAMI TERMINAL AREA CHART**  
**76th Edition, 26 Aug 2010**

**OBSTRUCTIONS**

**23 Sep 2010** No Major Changes.

**AIRPORTS**

**23 Sep 2010** No Major Changes.

**NAVAIDS**

**23 Sep 2010** No Major Changes.

**AIRSPACE**

**23 Sep 2010** No Major Changes.

**SPECIAL USE AIRSPACE**

**23 Sep 2010** No Major Changes.

**MILITARY TRAINING ROUTES**

**23 Sep 2010** No Major Changes.

**MISCELLANEOUS**

**23 Sep 2010** No Major Changes.

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## NEW ORLEANS SECTIONAL

### 86th Edition, 3 Jun 2010

**OBSTRUCTIONS****3 Jun 2010** No Major Changes.**29 Jul 2010** Add obst 429' MSL (310' AGL), 31°34'24"N, 87°57'06"W.

Add obst 670' MSL (310' AGL), 32°02'25"N, 85°24'42"W.

Add obst 328' MSL (210' AGL), 31°26'25"N, 88°09'19"W.

Add obst 393' MSL (259' AGL), 31°02'34"N, 84°48'11"W.

Add obst 627' MSL (349' AGL), 32°11'34"N, 87°38'49"W.

**23 Sep 2010** Add obst 603' MSL (260' AGL), 32°06'42"N, 87°46'49"W.

Add obst 459' MSL (257' AGL) UC, 31°46'12"N, 88°12'19"W.

Add obst 429' MSL (310' AGL) UC, 32°13'17"N, 88°08'52"W.

Add obst 281' MSL (258' AGL), 30°19'23"N, 85°35'43"W.

Add obst 328' MSL (290' AGL) UC, 30°37'43"N, 88°26'25"W.

Add obst 640' MSL (257' AGL), 31°44'38"N, 86°25'20"W.

Add obst 436' MSL (315' AGL), 31°03'21"N, 89°44'52"W.

Add obst 753' MSL (310' AGL), 31°58'34"N, 90°15'53"W.

**AIRPORTS****3 Jun 2010 29 Jul 2010** No Major Changes.**23 Sep 2010** BRUNDIDGE arpt abandoned, 31°43'58"N, 85°48'15"W.**NAVAIDS****3 Jun 2010 – 23 Sep 2010** No Major Changes.**AIRSPACE****3 Jun 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****3 Jun 2010** No Major Changes.**29 Jul 2010** Add Gulfport, MS MOA-SNAKE beginning at 29°42'51"N, 88°49'30"W to 29°41'20"N, 88°38'33"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the shoreline to 29°08'46"N, 88°45'36"W to 29°34'32"N, 89°21'26"W to 29°50'00"N, 89°15'00"W to 29°56'15"N, 89°09'00"W to 30°06'00"N, 88°51'00"W then 3 NM offshore of the Chandeleur Islands to the point of beginning. Altitude: 6000 MSL to but not including FL 180, Time of use intermittent; sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS MOA-SNAKE LOW beginning at 29°42'51"N, 88°49'30"W to 29°41'20"N, 88°38'33"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the shoreline to 29°08'46"N, 88°45'36"W to 29°34'32"N, 89°21'26"W to 29°50'00"N, 89°15'00"W to 29°56'15"N, 89°09'00"W to 30°06'00"N, 88°51'00"W then 3 NM offshore of the Chandeleur Islands to the point of beginning. Altitude: 3000 MSL to but not including 6000 MSL Time of use: intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-148A beginning at 29°36'11"N, 88°01'30"W to 28°51'21"N, 88°01'30"W to 29°00'57"N, 88°36'10"W to 29°08'46"N, 88°45'36"W then 12 NM from and parallel to the shoreline. to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the Chandeleur Islands to 29°41'20"N, 88°38'33"W to the point of beginning. Altitude: surface to but not including 6000 MSL Time of use: intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-148B beginning at 29°36'11"N, 88°01'30"W to 28°51'21"N, 88°01'30"W to 29°00'57"N, 88°36'10"W to 29°08'46"N, 88°45'36"W then 12 NM from and parallel to the shoreline to 29°24'25"N, 88°54'05"W then 12 NM from and parallel to the Chandeleur Islands to 29°41'20"N, 88°38'33"W to the point of beginning. Altitude: 6000 MSL to FL 600 time of use intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Delete Gulfport, MS W-453.

Add Gulfport, MS W-453A beginning at 30°09'16"N, 88°01'30"W to 29°36'11"N, 88°01'30"W to 29°42'51"N, 88°49'30"W then 3 nm from and parallel to the Chandeleur Islands to 30°06'01"N, 88°51'00"W to 30°11'01"N, 88°41'40"W then 3 NM from and parallel to the shoreline to point of beginning. Altitude: surface to but not including 6000 MSL time of use intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

Add Gulfport, MS W-453B beginning at 30°09'16"N, 88°01'30"W to 29°36'11"N, 88°01'30"W to 29°42'51"N, 88°49'30"W then 3 NM from and parallel to Chandeleur Islands to 30°06'01"N, 88°51'00"W to 30°11'01"N, 88°41'40"W then 3 NM from and parallel to the shoreline to the point of beginning. Altitude: 6000 MSL to FL 600 time of use intermittent, sunrise to sunset; other times by NOTAM. Controlling agency HOUSTON ARTCC.

**23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****3 Jun 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****3 Jun 2010 – 23 Sep 2010** No Major Changes.

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**ORLANDO TERMINAL AREA CHART****41st Edition, 26 Aug 2010****OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** No Major Changes.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** No Major Changes.**MISCELLANEOUS****23 Sep 2010** No Major Changes.

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**PUERTO RICO–VIRGIN ISLAND TERMINAL AREA CHART****36th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add obst 818' MSL (260' AGL) UC, 18°02'29"N, 66°50'24"W.**8 Apr 2010 – 23 Sep 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 23 Sep 2010** No Major Changes.



# ST. LOUIS SECTIONAL

## 82nd Edition, 1 Jul 2010

### OBSTRUCTIONS

**29 Jul 2010** Add obst 1022' MSL (308' AGL) UC, 39°38'13"N, 87°04'56"W.  
 Add obst 883' MSL (383' AGL) UC, 37°21'47"N, 87°30'56"W.  
 Add obst 1386' MSL (255' AGL) UC, 37°10'17"N, 84°34'39"W.  
 Add obst 990' MSL (258' AGL) UC, 39°53'39"N, 88°43'31"W.  
 Add obst 848' MSL (260' AGL) UC, 38°50'53"N, 90°47'56"W.  
**23 Sep 2010** Add obst 1088' MSL (299' AGL), 38°48'58"N, 84°46'53"W.  
 Add obst 941' MSL (278' AGL) UC, 39°23'29"N, 89°51'46"W.  
 Add obst 876' MSL (258' AGL) UC, 39°32'44"N, 89°09'24"W.  
 Add obst 1109' MSL (310' AGL) UC, 38°50'24"N, 85°29'50"W.  
 Add obst 835' MSL (290' AGL) UC, 36°34'39"N, 87°08'32"W.  
 Add obst 2115' MSL (265' AGL) UC, 36°08'04"N, 85°04'08"W.  
 Add obst 972' MSL (255' AGL), 37°42'39"N, 86°31'35"W.  
 Add obst 1049' MSL (255' AGL), 37°06'16"N, 85°26'55"W.

### AIRPORTS

**29 Jul 2010** Change CTAF 122.9 to 122.8 at CYNTHIANA-HARRISON CO arpt 38°21'58"N, 84°17'00"W.  
**23 Sep 2010** Delete CAREFERRE ACRES arpt, 39°10'59"N, 87°07'34"W.  
 Delete ARRAS RLA arpt, 39°20'17"N, 90°10'41"W.  
 Change CTAF 122.8 to 123.05 at ALEXANDRIA arpt, 40°13'57"N, 85°38'15"W.  
 Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON CO arpt, 38°21'58"N, 84°17'00"W.

### NAVAIDS

**29 Jul 2010** Delete DYERSBURG NDB, 35°59'42"N, 89°24'20"W.  
**23 Sep 2010** Delete NORTH VERNON NDB, 39°02'59"N, 85°36'03"W.  
 Delete GENEVA NDB, 37°48'11"N, 87°46'14"W.

### AIRSPACE

**29 Jul 2010** Revise MARION, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at lat. 37°53'40" N., long. 88°48'35" W.; to lat. 37°56'25" N., long. 89°02'40" W.; to lat. 37°58'45" N., long. 89°20'25" W.; to lat. 37°47'25" N., long. 89°26'00" W.; to lat. 37°42'10" N., long. 89°24'00" W.; to lat. 37°40'46" N., long. 89°20'17" W.; to lat. 37°34'56" N., long. 89°20'25" W.; to lat. 37°34'48" N., long. 89°10'21" W.; to lat. 37°37'05" N., long. 89°10'18" W.; to lat. 37°32'50" N., long. 88°59'00" W.; to lat. 37°42'35" N., long. 88°52'15" W.; to the point of beginning.  
 Revise MANILA, AR Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Manila Municipal Airport.  
**23 Sep 2010** No Major Changes.

### SPECIAL USE AIRSPACE

**29 Jul 2010** No Major Changes.  
**23 Sep 2010** Add SULLIVAN, IN. Restricted Area, R-3405. Beginning at 39°07'41"N, 87°22'02"W; to 39°07'41"N, 87°21'29"W; to 39°07'39"N, 87°21'29"W; to 39°07'39"N, 87°21'26"W; to 39°07'41"N, 87°21'25"W; to 39°07'41"N, 87°21'12"W; to 39°07'00"N, 87°21'08"W; to 39°07'00"N, 87°21'46"W; to 39°06'36"N, 87°21'47"W; to 39°06'36"N, 87°22'03"W; to the point of beginning. Designated altitudes. Surface up to and including 1,600 feet MSL. Times of Designation. By NOTAM 24 hours in advance. Controlling Agency. FAA, Terre Haute ATCT.  
 Revise CRANE, IN. Restricted Area R-3404. That airspace within a 1 NM radius of 38°49'30"N, 86°50'08"W. Designated altitudes. Surface to and including 4,100 feet MSL. Time of designation. Sunrise to sunset, daily from May 1 through and including November 1. Other times by NOTAM 24 hours in advance. Controlling agency. FAA, Terre Haute ATCT.

### MILITARY TRAINING ROUTES

**29 Jul 2010 – 23 Sep 2010** No Major Changes.

### MISCELLANEOUS

**29 Jul 2010 – 23 Sep 2010** No Major Changes.

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**TAMPA TERMINAL AREA CHART**  
**41st Edition, 26 Aug 2010****OBSTRUCTIONS****23 Sep 2010** No Major Changes.**AIRPORTS****23 Sep 2010** No Major Changes.**NAVAIDS****23 Sep 2010** No Major Changes.**AIRSPACE****23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****23 Sep 2010** No Major Changes.**MISCELLANEOUS****23 Sep 2010** No Major Changes.

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**U.S. GULF COAST VFR CHART**  
**24th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRPORTS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**NAVAIDS****22 Oct 2009 – 23 Sep 2010** No Major Changes.**AIRSPACE****22 Oct 2009 – 17 Dec 2009** No Major Changes.**11 Feb 2010** Add LCHCB IFR Waypoint, 29°31'39"N, 93°00'00"W.

Add LCHLB IFR Waypoint, 29°32'11"N, 93°20'00"W.

Add LCHRB IFR Waypoint, 29°31'04"N, 92°40'00"W.

Add LLACB IFR Waypoint, 29°30'31"N, 92°00'00"W.

Add LLALB IFR Waypoint, 29°30'49"N, 92°20'00"W.

Add LLARB IFR Waypoint, 29°30'10"N, 91°43'49"W.

**8 Apr 2010 – 23 Sep 2010** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****22 Oct 2009 – 23 Sep 2010** No Major Changes.

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**WASHINGTON SECTIONAL**  
**88th Edition, 29 Jul 2010****OBSTRUCTIONS****29 Jul 2010** No Major Changes.**23 Sep 2010** Add obst 412' MSL (230' AGL), 38°22'46"N, 77°25'07"W.

Add obst 723' MSL (270' AGL) UC, 39°45'39"N, 76°01'48"W.

Add obst 636' MSL (310' AGL), 36°24'11"N, 77°55'45"W.

Add obst 226' MSL (220' AGL), 36°13'42"N, 76°08'05"W.

Add obst 647' MSL (400' AGL), 36°12'41"N, 78°04'09"W.

Add obst 1342' MSL (355' AGL) UC, 39°20'19"N, 78°45'27"W.

**AIRPORTS****29 Jul 2010 – 23 Sep 2010** No Major Changes.**NAVAIDS****29 Jul 2010** No Major Changes.**23 Sep 2010** Shutdown AZALEA PARK NDB, 38°00'37"N, 78°31'05"W.

Delete COGAN NDB, 39°05'11"N, 78°04'07"W.

**AIRSPACE****29 Jul 2010** No Major Changes.**23 Sep 2010** Change PHILADELPHIA Class B freq from 126.6 to 133.875**SPECIAL USE AIRSPACE****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MILITARY TRAINING ROUTES****29 Jul 2010 – 23 Sep 2010** No Major Changes.**MISCELLANEOUS****29 Jul 2010 – 23 Sep 2010** No Major Changes.

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## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
Frankfort, IL (LL40) Chicago App/Dep Con 133.1 285.6	L-28H
Glasgow Industrial, MT (07MT) Salt Lake Center App/Dep Con 126.85 305.2	H-1E, 2F, L-13D
USAF Academy Bullseye Aux Airstrip, CO (CO90) ASOS 118.325	L-10F
West Kentucky Airpark, KY (5KY3) Memphis Center App/Dep Con 133.65 292.15	L-16I
William P Gwinn, FL (06FA) Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z) Gnd Con 121.65 279.25	H-8I, L-23C

## CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX) ATIS 119.8 (1500-0700Z) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z) Gnd Con 121.8 MF 119.4 295.0 (0700-1500Z) (Shape irregular to 4500')	H-1B, L-12F
Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9	H-11B
Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500' No ground station)	L-14I
Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS) AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025	H-11B, L-31D
Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65	L-31C
Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25	L-32J
Boundary Bay, BC (CZBB) ATIS 125.5 (1500-0700Z) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z) Gnd Con 124.3 MF 118.1 (0700-1500Z to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500')	H-1B, L-1E
Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1	L-31D
Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000')	H-2H
Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27	L-31D
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) Montreal Center App/Dep Con 134.675	L-32G
Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	L-32G
Burlington Airpark, ON (CZBA) Toronto Center App/Dep Con 119.3 253.1	L-31D
Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H-11E, L-32J
Chatham-Kent, ON (CNZ3) Cleveland Center App/Dep Con 132.25	H-10G, L-30G

FACILITY NAME	CHART & PANEL
<b>Collingwood, ON</b> (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
<b>Cornwall Rgnl, ON</b> (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
<b>Cranbrook/Canadian Rockies Intl, BC</b> (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
<b>Debert, NS</b> (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
<b>Digby, NS</b> (CYID) Moncton Center App/Dep Con 123.9	L-32J
<b>Downsview, ON</b> (CYZD) Toronto Center App/Dep Con 133.4 MF 126.2 (1300-2300Z†, 3 NM to 1700')	H-11B, L-31E
<b>Drummondville, QC</b> (CSC3) Montreal Center App/Dep Con 132.35	L-32H
<b>Earlton (Timiskaming Rgnl), ON</b> (CYXR) MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
<b>Elliot Lake Muni, ON</b> (CYEL) Toronto Center App/Dep Con 135.4	L-31C
<b>Fort Frances Muni, ON</b> (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
<b>Fredericton Intl, NB</b> (CYFC) ATIS 127.55 (1045-0245Z†, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045-0245Z†) Gnd Con 121.7 (1045-0245Z†) MF 119.0 (0245-1045Z†, 5 NM to 3500')	H-11E, L-32I
<b>Goderich, ON</b> (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
<b>Greenwood, NS</b> (CYZX) ATIS 128.85 244.3 (1100-0000Z†) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Clncl Del 128.025 283.9	H-11E, L-32J
<b>Grimsby Air Park, ON</b> (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
<b>Halifax/Shearwater, NS</b> (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
<b>Halifax/Stanfield Intl, NS</b> (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Clncl Del 123.95 Apron Advisory 122.125	H-11E, L-32J
<b>Hamilton, ON</b> (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
<b>Kingston, ON</b> (CYGK) Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z†) MF 122.5 (1115-0400Z† 5 NM to 3300')	H-11C, L-31E, 32F
<b>Kitchener/Waterloo, ON</b> (CYKF) ATIS 125.1 (1200-0400Z†) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z†) Gnd Con 121.8 MF 126.0 (0400-1200Z† 5 NM to 4000')	H-11B, L-31D
<b>Lachute, QC</b> (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
<b>La Tuque, QC</b> (CYLQ) Montreal Center App/Dep Con 134.5	H-11C
<b>Langley, BC</b> (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E

FACILITY NAME	CHART & PANEL
<b>Leamington, ON</b> (CLM2) Cleveland Center App/Dep Con 132.45	L-30F
<b>Lethbridge, AB</b> (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
<b>Lindsay, ON</b> (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
<b>Liverpool/South Shore Rgnl, NS</b> (CYAU) Moncton Center App/Dep Con 123.9	L-32J
<b>London, ON</b> (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
<b>Manitowaning/Manitoulin East Muni, ON</b> (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
<b>Maniwaki, QC</b> (CYMW) Montreal Center App/Dep Con 126.57	L-32G
<b>Mascouche, QC</b> (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
<b>Medicine Hat, AB</b> (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
<b>Midland/Huronía, ON</b> (CYEE) Toronto Center App/Dep 124.025	L-31D
<b>Miramichi, NB</b> (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
<b>Moncton/Greater Moncton Intl, NB</b> (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
<b>Mont-Laurier, QC</b> (CSD4) Montreal Center App/Dep Con 126.57	L-32G
<b>Montreal Intl (Mirabel), QC</b> (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/Pierre Elliott Trudeau Intl, QC</b> (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 (W-NW-NE) 268.3 VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/St-Hubert, QC</b> (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
<b>Muskoka, ON</b> (CYQA) AWOS 124.575 Timmins Radio App/Dep Con 122.3 MF 122.3 (5 NM to 3900')	H-11B, L-31D
<b>Nanaimo, BC</b> (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
<b>North Bay, ON</b> (CYYB) ATIS 124.9 (1130-0330Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L31D
<b>Oshawa, ON</b> (CYYO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E

FACILITY NAME	CHART & PANEL
<b>Ottawa/Carp, ON (CYRP)</b> ATIS 121.15 Ottawa Trml App/Dep Con 128.175	L-31E, 32F
<b>Ottawa/Gatineau, QC (CYND)</b> Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
<b>Ottawa/MacDonald-Cartier Intl, ON (CYOW)</b> ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Cinc Del 119.4 Ottawa Dep Con 128.175	L-11C
<b>Owen Sound/Billy Bishop Rgnl, ON (CYOS)</b> Toronto Center App/Dep 132.575 290.6	L-31D
<b>Pelee Island, ON (CYPT)</b> Cleveland Center App/Dep Con 126.35 360.0	L-30F
<b>Pembroke, ON (CYTA)</b> Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
<b>Penticton, BC (CYYF)</b> Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
<b>Peterborough, ON (CYPQ)</b> AWOS 126.925 Toronto Center App/Dep 134.25	H-11B, L-31E, 32F
<b>Pincher Creek, AB (CZPC)</b> Edmonton Center App/Dep Con 132.75 265.2	H-1D
<b>Pitt Meadows, BC (CYPK)</b> ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
<b>Quebec/Jean Lesage Intl, QC (CYQB)</b> ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
<b>Riviere Du Loup, QC (CYRI)</b> AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
<b>Rouyn Noranda, QC (CYUY)</b> Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
<b>Saint John, NB (CYSJ)</b> Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
<b>Sarnia (Chris Hadfield), ON (CYZR)</b> AWOS 119.125 Toronto Center App/Dep Con 134.375	H-10G, 11B, L-30F
<b>Sault Ste Marie, ON (CYAM)</b> ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 (1300-0100Z†) MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
<b>Sherbrooke, QC (CYAM)</b> AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
<b>South Renfrew Muni, ON (CNP3)</b> Montreal Center App/Dep 124.275	L-31E, 32F
<b>Southport, MB (CYPG)</b> ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
<b>Springwater Barrie Airpark, ON</b> (CNA3) Toronto Center App/Dep Con 124.025	L-31D
<b>St. Catharines/Niagara District, ON</b> (CYSN) ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z‡ 5 NM to 3300')	H-10H, 11B, L-31E
<b>St. Frederic, QC</b> (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L-32H
<b>St. Georges, QC</b> (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
<b>St. Jean, QC</b> (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7	L-32G
<b>Sudbury, ON</b> (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
<b>Summerside, PE</b> (CYSU) AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
<b>Thunder Bay, ON</b> (CYQT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡) App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	H-2J, L-14J
<b>Timmins/Victor M. Power, ON</b> (CYTS) ATIS 124.95 (1000-0500Z‡) Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	H-11B
<b>Toronto/Buttonville Muni, ON</b> (CYKZ) ATIS 127.1 (1200-0400Z‡) Toronto Trml App/Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 (1200-0400Z‡) MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31E
<b>Toronto/Billy Bishop Toronto City Airport, ON</b> (CYYZ) ATIS 133.6 (1130-0400Z‡) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	L-31E
<b>Toronto/Lester B Pearson Intl, ON</b> (CYYZ) ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 119.1 121.65 121.9 Clnc Del 121.3 (1200-0400Z‡)	H-11B, L-31D
<b>Trenton, ON</b> (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4	H-11C, L-31E, 32F
<b>Trenton/Mountain View, ON</b> (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
<b>Trois-Rivieres, QC</b> (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
<b>Val-D'or, QC</b> (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')	H-11B
<b>Vancouver Intl, BC</b> (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	H-1B, L-1E



FACILITY NAME	CHART & PANEL
<b>Victoria Intl, BC</b> (CYYJ) ATIS 118.8 (1400-0800Z‡) App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Clnc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
<b>Victoriaville, QC</b> (CSR3) Montreal Center App Con 132.35	L-32H
<b>Waterville/Kings Co Muni, NS</b> (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
<b>Warton, ON</b> (CYVV) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
<b>Windsor, ON</b> (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
<b>Yarmouth, NS</b> (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

## MEXICO

FACILITY NAME	CHART & PANEL
<b>Abraham Gonzalez Intl</b> (MMCS) Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
<b>Del Norte Intl</b> (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
<b>Durango Intl</b> (MMDO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
<b>General Abelardo L Rodriguez Intl</b> (MMTJ) ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
<b>General Lucio Blanco Intl</b> (MMRX) Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
<b>General Mariano Escobedo Intl</b> (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
<b>General R Fierro Villalobos Intl</b> (MMCU) ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
<b>General Rodolfo Sanchez Taboada Intl</b> (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
<b>General Servando Canales Intl</b> (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
<b>Plan De Guadalupe Intl</b> (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
<b>Quetzalcoatl Intl/Nuevo Laredo Intl</b> (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
<b>Torreon Intl</b> (MMTC) App Con 119.6 Tower 118.5	H-7A





In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.






NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

## GENERAL INFORMATION

### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS


Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0"  beside the name.

A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., .  
To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365  
Orig 00365 Date of latest change

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### MISCELLANEOUS

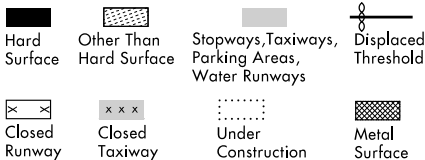
- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

10210  
LEGEND

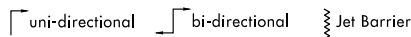
INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways

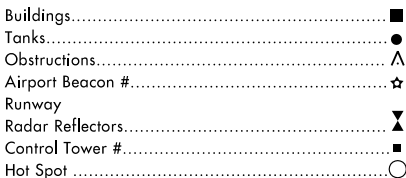


**ARRESTING GEAR:** Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM

REFERENCE FEATURES



# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325

Helicopter Alighting Areas Negative Symbols used to identify Copter Procedures landing point.....

Runway Threshold elevation.....THRE 123  
Runway TDZ elevation.....TDZE 123

Runway Slope.....0.3% DOWN  
(shown when runway slope is greater than or equal to 0.3%)  
.....0.8% UP

NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

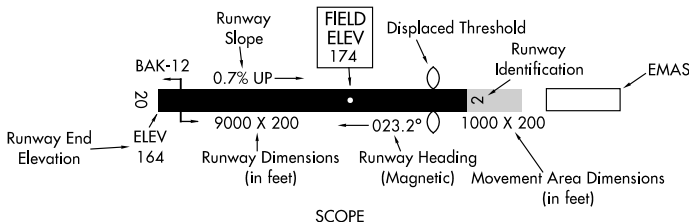
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

## HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>ALABAMA</b>		
MONTGOMERY		
MONTGOMERY RGNL (DANNELY FIELD) (MGM)	HS 1	Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to Rwy 10–28.
	HS 2	Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10–28 at Twy A5.
TUSCALOOSA		
TUSCALOOSA RGNL (TCL)	HS 1	Unusually placed Rwy 29 hold line just beyond Twy F.
<b>FLORIDA</b>		
DAYTONA BEACH		
DAYTONA BEACH INTL (DAB)	HS 1	Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance.
HOLLYWOOD		
NORTH PERRY (HWO)	HS 1	Southbound on Twy D for Rwy 27R departures—Pilots miss the turn onto Twy P and enter the rwy.
	HS 2	The hold line for Rwy 36L is also the hold line for Rwy 09R.
	HS 3	Acft taxiing on Twy L westbound to depart on Rwy 18R–36L, Twy L crosses the apch end of Rwy 36R. Pilots should obtain clearance from ground ctl prior to crossing Rwy 36R.
MIAMI		
MIAMI INTL, FL (MIA)	HS 1	Short taxi across twys to rwy.
	HS 2	Short taxi across twys to rwy.
	HS 3	Rwy 27 and Rwy 30 wrong rwy departure risk.
	HS 4	Short twy between rwys.
ORLANDO		
ORLANDO SANFORD INTL (SFB)	HS 1	Rwy 09C APCH hold (Rwy 09C APCH) enroute to Twy C.
	HS 2	The hold line for Rwy 09R on Twy R northbound is placed immediately adjacent to Twy S after crossing Rwy 36 and turning right on Twy R.
STURT		
WITHAM FIELD (SUA)	HS 1	Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.)
	HS 2	Rwy 12 and Twy A1.

## GEORGIA

ATLANTA		
HARTSFIELD-JACKSON	HS 1	Intersections of Twy C and Twy D at Rwy 08L-26R. Hold short line is only 250' after exiting the FBO ramp. Rwy hold bar is canted which peaks towards the twy.
ATLANTA INTL (ATL)	HS 2	Intersections of Twy C and Twy D at Rwy 08R-26L. Caution transitioning between the parallel rwys. Rwy hold bar is canted which peaks towards the twy. Rwy hold short line is only 380' away after exiting Rwy 08L-26R and 70' south of the Twy B centerline.
	HS 3	Intersection of Twy H at Rwy 08R-26L. Acft travelling westbound for the Twy V end-around, mistakenly turn southbound on Twy H and enter Rwy 08R-26L.
	HS 4	Intersection of Twy D at Rwy 09L-27R. Acft southbound on Twy D fail to turn on Twy L and Twy M and enter Rwy 09L-27R. Acft crossing Rwy 09L-27R at Twy D southbound to Twy K must turn 45 degrees left immediately after crossing the rwy hold bar.

AUGUSTA		
AUGUSTA RGNL AT BUSH FLD (AGS)	HS 1	Intersection of Twy E and Rwy 17-35.

## KENTUCKY

LEXINGTON		
BLUE GRASS (LEX)	HS 1	Rwy 27 apch hold occurs prior to Rwy 22 hold line, and only applies when instructed by ATC.
LOUISVILLE		
BOWMAN FIELD (LOU)	HS 1	Acft operating near Rwy 06-24, Rwy 15-33 at midfield are in close proximity to intersecting/crossing rwy and twys.
PADUCAH		
BARKLEY RGNL (PAH)	HS 1	Rwy 14-32 at Twy F: Short taxi risk after turning on Twy F.
	HS 2	Rwy 04-22 at Twy C: Rwy confusing as another twy.
	HS 3	Rwy 04 at the end of Twy W South: Short taxi after the turn.

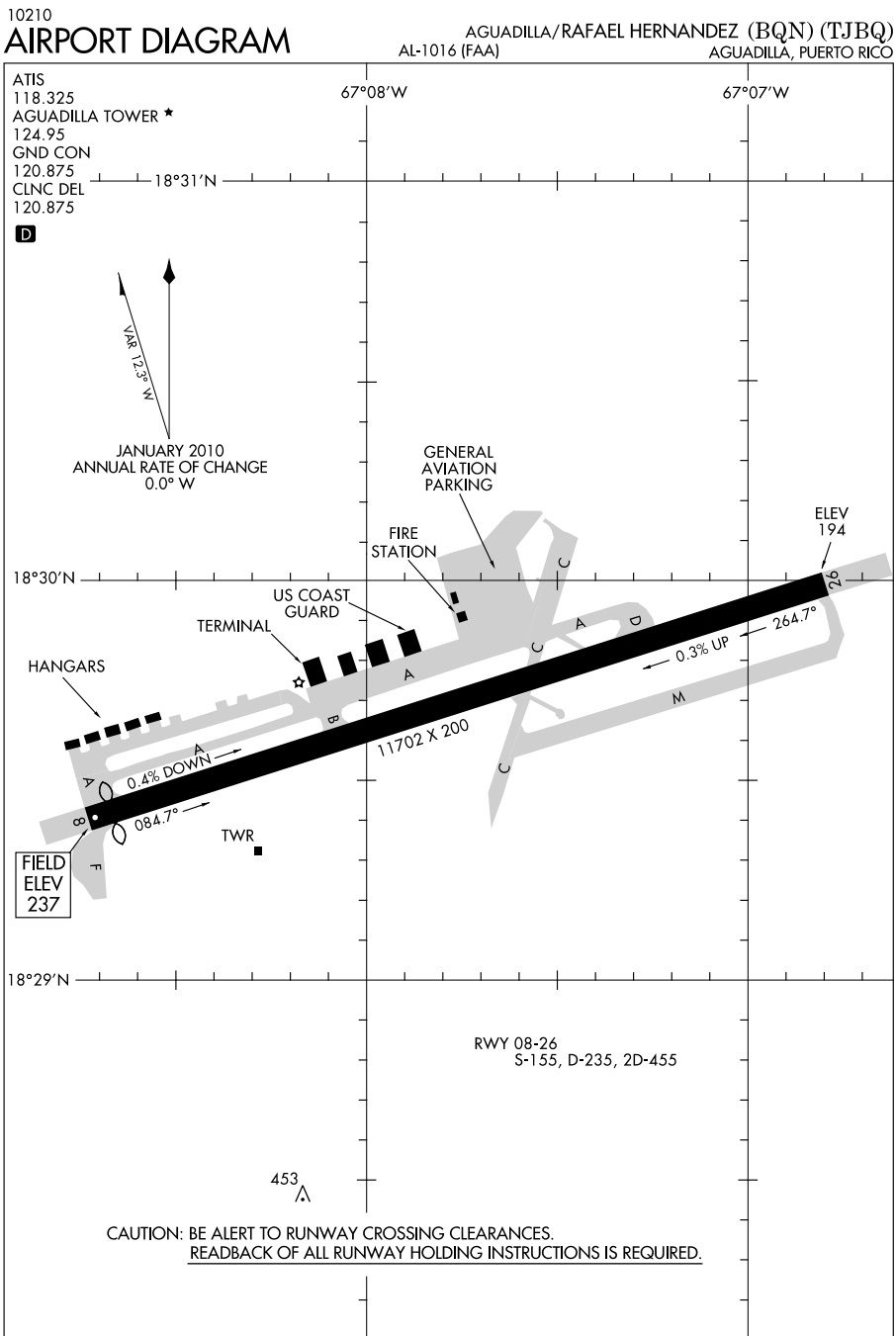
## NORTH CAROLINA

CHARLOTTE		
CHARLOTTE/DOUGLAS INTL (CLT)	HS 1	Confusing intersection due to convergence of Twy R, Twy A, Twy C and Twy C9, along with grass island.
	HS 2	Pilots exiting Rwy 18C-36C on Twy S for either Twy E or Twy F mistakenly turn left on Twy E5 and reenter the rwy.
RALEIGH/DURHAM		
RALEIGH-DURHAM INTL (RDU)	HS 1	Intersection of Rwy 5R-23L and Twy C.

## TENNESEE

KNOXVILLE		
MC GHEE TYSON (TYS)	HS 1	Holding position marking for full length of Rwy 23L just beyond Twy A8 and Twy A.
	HS 2	Ramp exit Twy R5 short distance from Twy A and Rwy 05R-23L. Pilots miss turn onto Twy A.
	HS 3	Ramp exit Twy R4 short distance from Twy A and Rwy 05R-23L. Pilots miss turn onto Twy A.
	HS 4	Acft taxiing on Twy B4 southeast bound sometime fall to hold short of Rwy 23L.

# AIRPORT DIAGRAM



# AIRPORT DIAGRAM

10210

AGUADILLA, PUERTO RICO  
AGUADILLA/RAFAEL HERNANDEZ (BQN) (TJBQ)

# AIRPORT DIAGRAM

ALBANY/ SOUTHWEST GEORGIA RGNL (ABY)  
A) ALBANY, GEORGIA



ALBANY, GEORGIA  
ALBANY/ SOUTHWEST GEORGIA RGNL (ABY)

10266

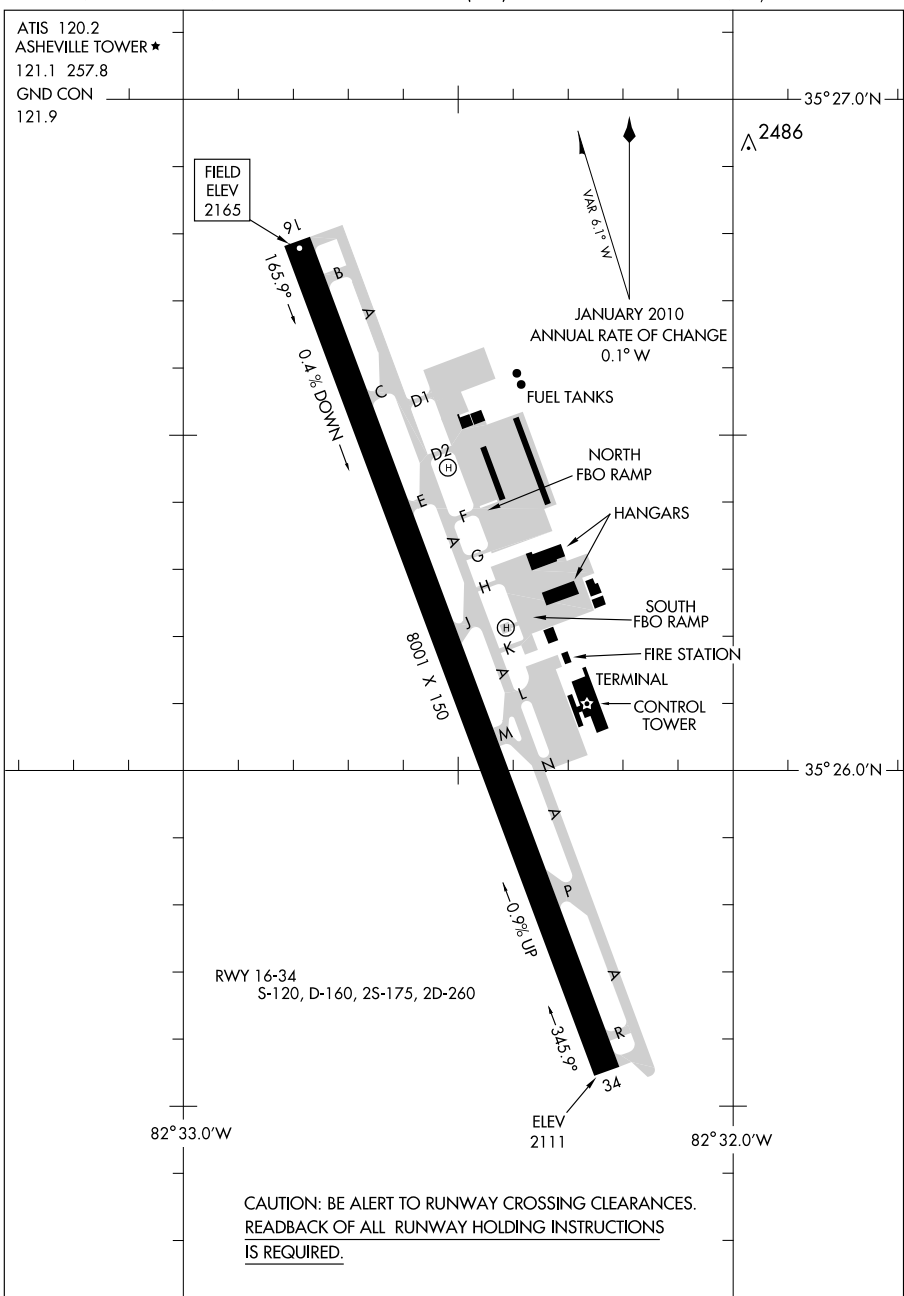
SE, 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-5061 (FAA)

ASHEVILLE RGNL (AVL)  
ASHEVILLE, NORTH CAROLINA



# AIRPORT DIAGRAM

10210

ASHEVILLE, NORTH CAROLINA  
ASHEVILLE RGNL (AVL)

SE. 23 SEP 2010 to 18 NOV 2010

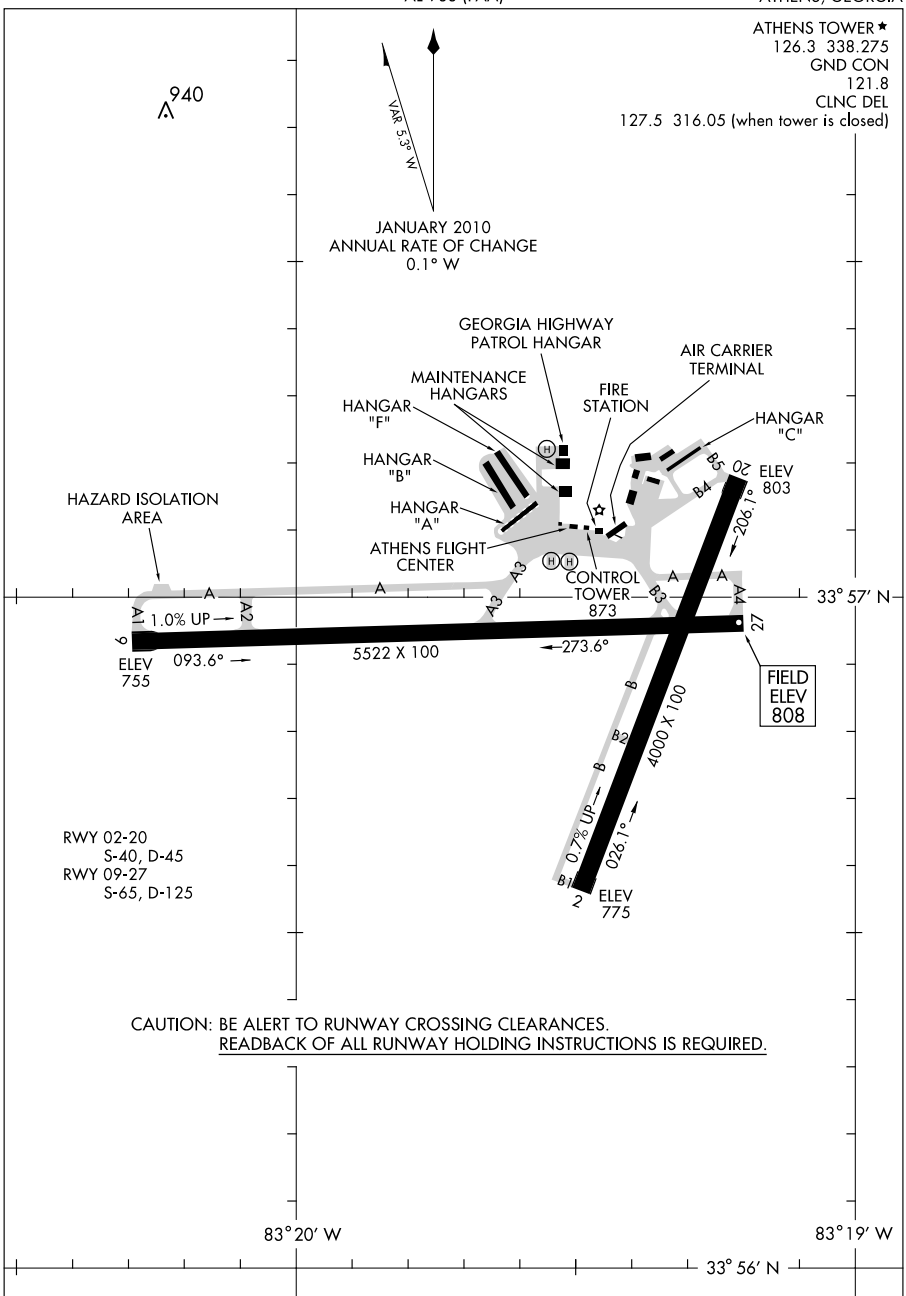


10210

# AIRPORT DIAGRAM

ATHENS/ BEN EPPS (AHN)

ATHENS, GEORGIA



# AIRPORT DIAGRAM

10210

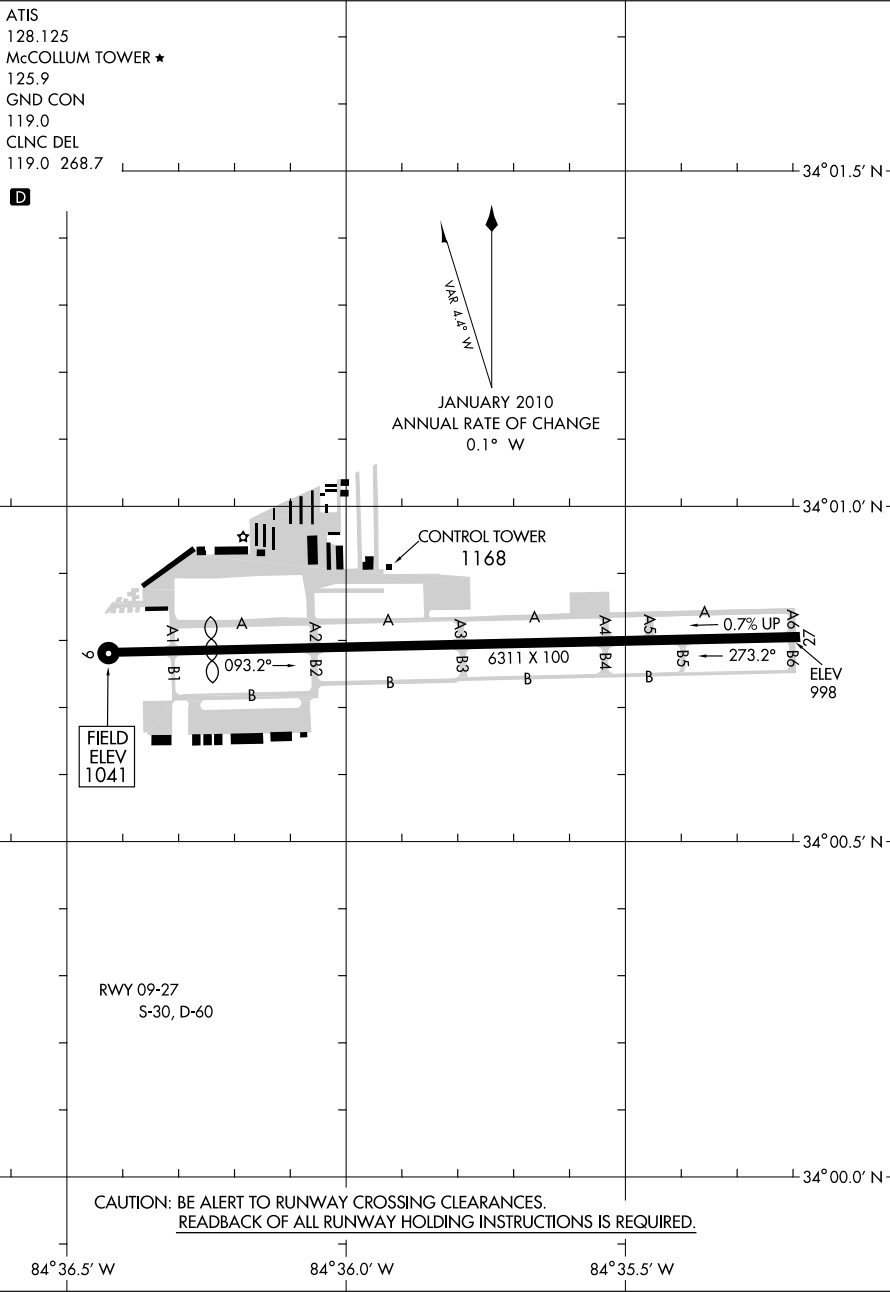
ATHENS, GEORGIA

ATHENS/ BEN EPPS (AHN)

SE. 23 SEP 2010 to 18 NOV 2010

10210  
AIRPORT DIAGRAM

ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)  
AL-6424 (FAA)  
ATLANTA, GEORGIA



AIRPORT DIAGRAM  
10210

ATLANTA, GEORGIA  
ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)

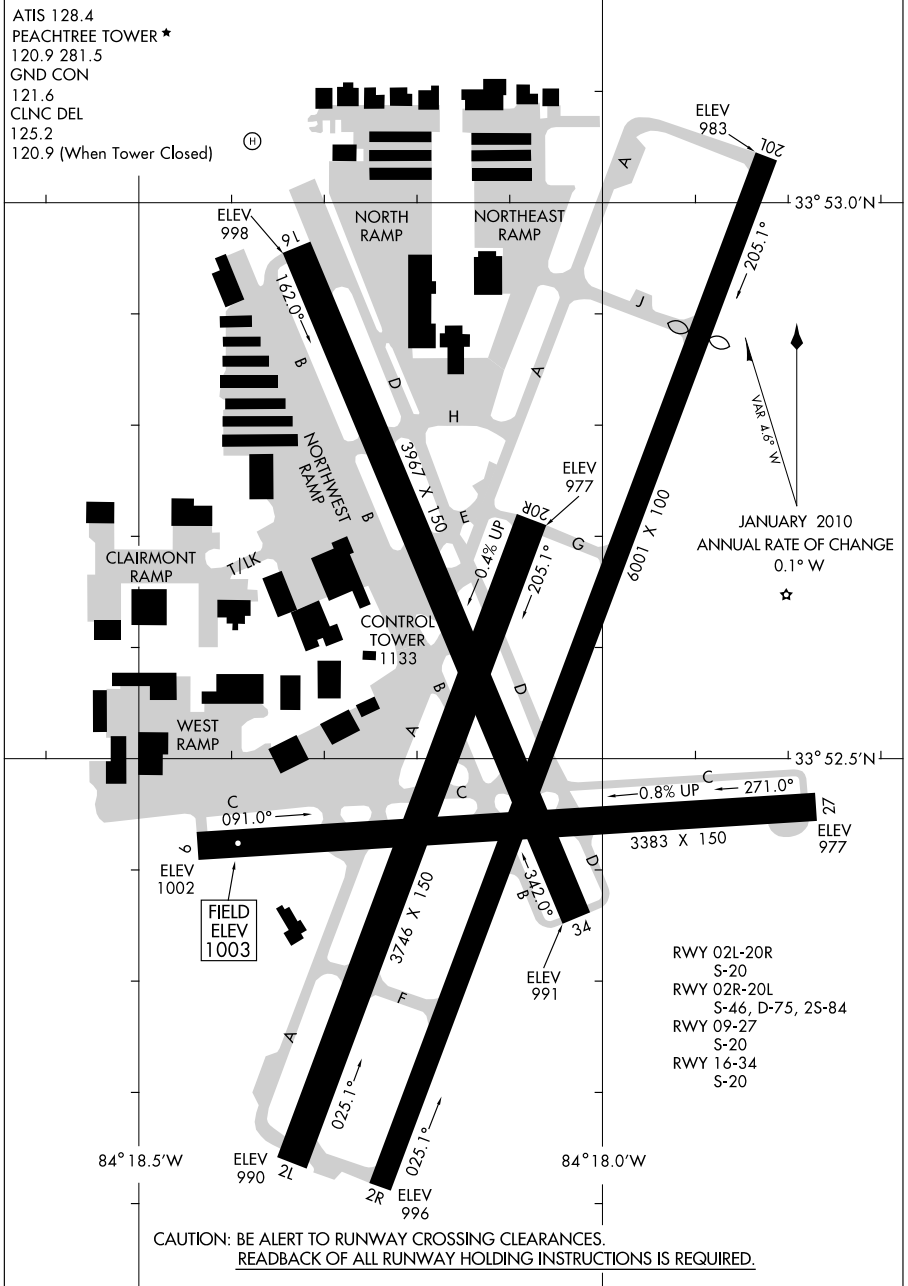
10210

## AIRPORT DIAGRAM

AL-469 (FAA)

ATLANTA/DEKALB-PEACHTREE (PDK)

ATLANTA, GEORGIA



## AIRPORT DIAGRAM

10210

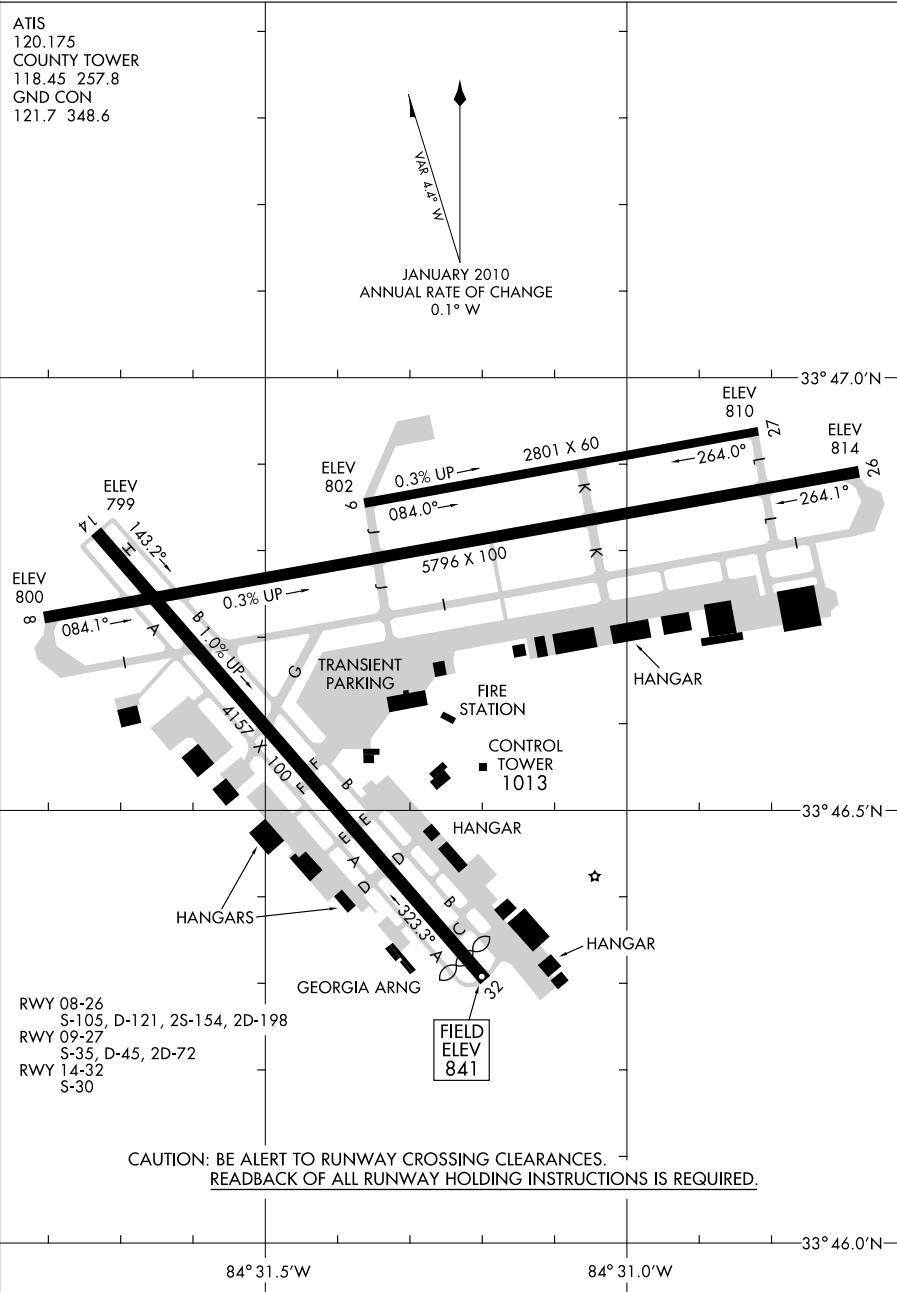
ATLANTA, GEORGIA

ATLANTA/DEKALB-PEACHTREE (PDK)

SE. 23 SEP 2010 to 18 NOV 2010

10210  
AIRPORT DIAGRAM

ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)  
AL-745 (FAA) ATLANTA, GEORGIA



AIRPORT DIAGRAM  
10210

ATLANTA, GEORGIA  
ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)

## AIRPORT DIAGRAM

ATLANTA, GEORGIA

**CAUTION:** Pilots are cautioned not to mistake the marked concrete on Rwy 10/28 and taxiway SG for a taxiway at the I-285 overpass.

ASDE-X Surveillance System  
in use. Pilots should operate  
transponders with Mode C on  
all twys and rwys.

## AIRPORT DIAGRAM

ATLANTA, GEORGIA  
ATLANTA/ HARTSFIELD - JACKSON ATLANTA INTL (ATL)

10266

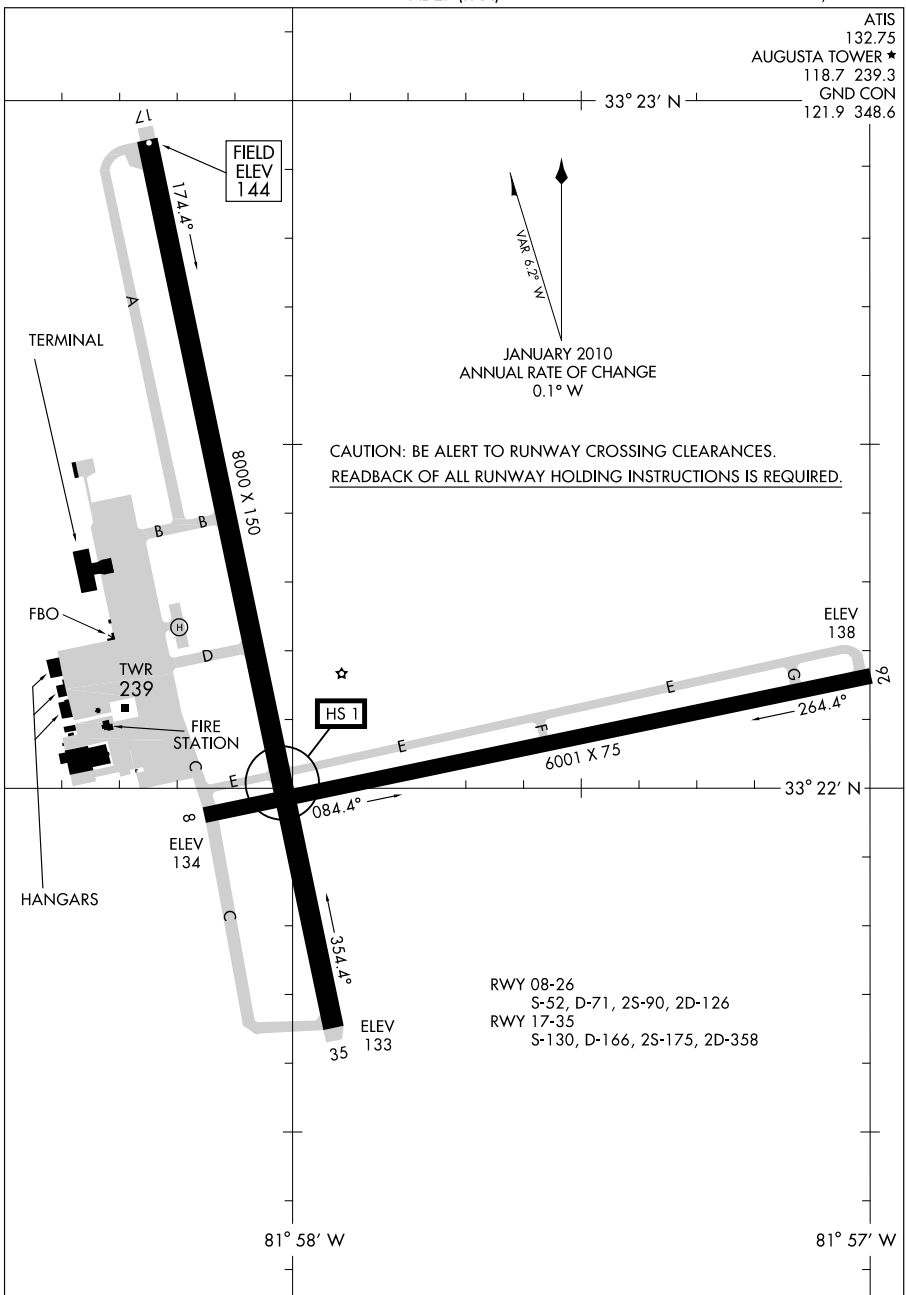
SE. 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

AL-27 (FAA)

AUGUSTA RGNL AT BUSH FIELD (AGS)

AUGUSTA, GEORGIA



# AIRPORT DIAGRAM

AUGUSTA, GEORGIA

AUGUSTA RGNL AT BUSH FIELD (AGS)

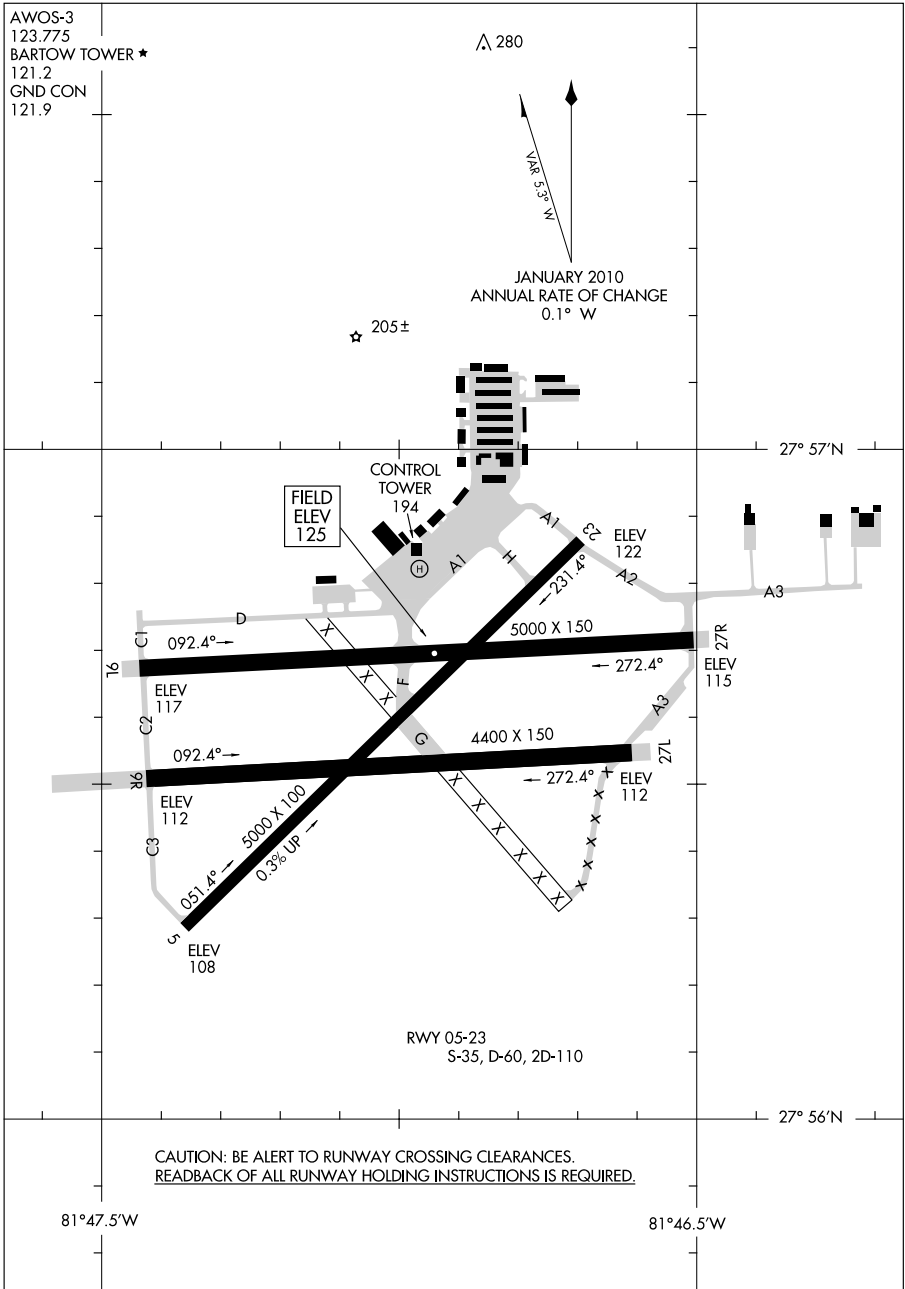
10210

# AIRPORT DIAGRAM

AL-5838 (FAA)

BARTOW MUNI (BOW)

BARTOW, FLORIDA



# AIRPORT DIAGRAM

BARTOW MUNI (BOW)

BARTOW, FLORIDA

10210

SE. 23 SEP 2010 to 18 NOV 2010

10098

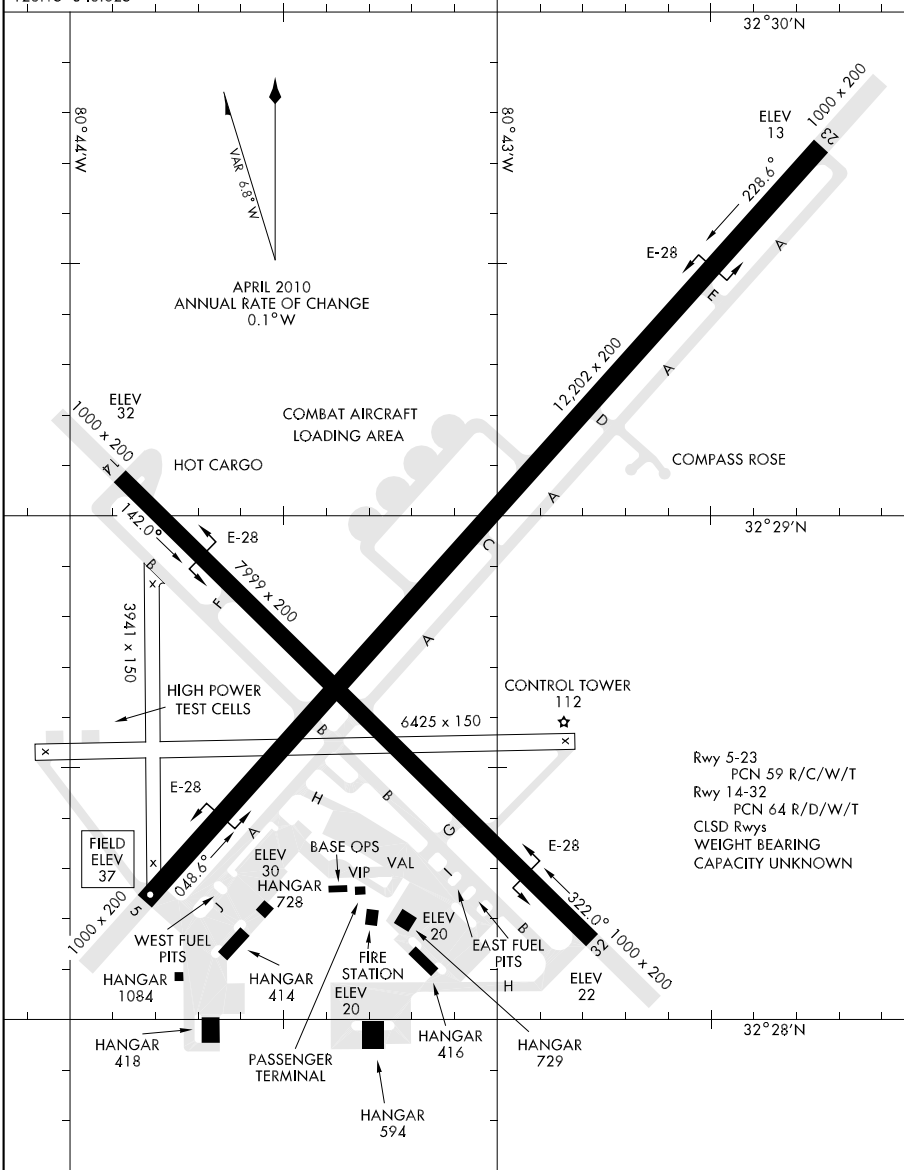
## AIRPORT DIAGRAM

AFD-916 [USN]

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

BEAUFORT, SOUTH CAROLINA

ATIS ★ 256.15  
 BEAUFORT TOWER ★  
 119.05 342.875  
 GND CON  
 128.15 348.625  
 CLNC DEL  
 128.15 348.625



## AIRPORT DIAGRAM

BEAUFORT, SOUTH CAROLINA

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

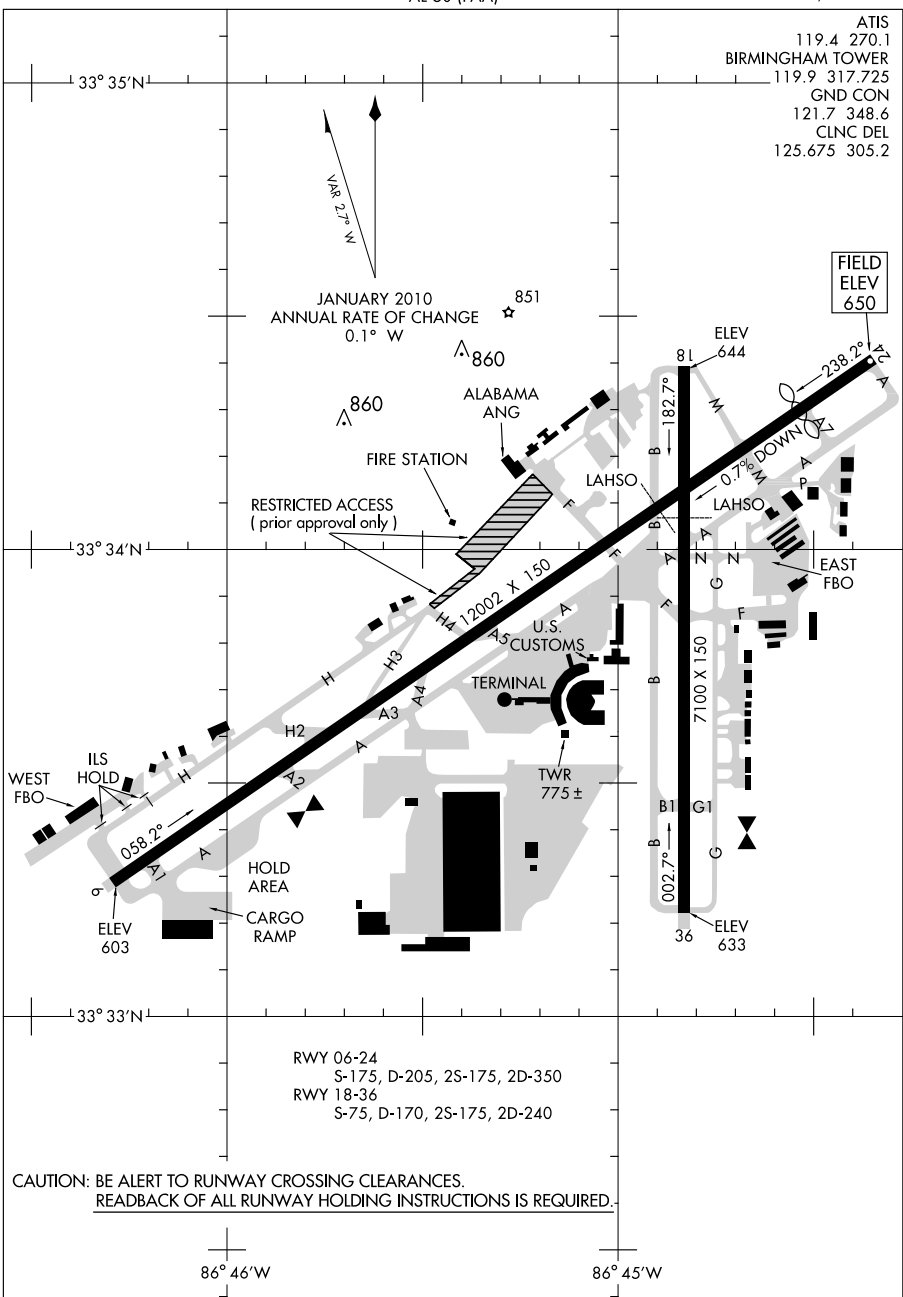
SE. 23 SEP 2010 to 18 NOV 2010



## AIRPORT DIAGRAM

AL-50 (FAA)

BIRMINGHAM-SHUTTLESWORTH INTL (BHM)  
BIRMINGHAM, ALABAMA



## AIRPORT DIAGRAM

BIRMINGHAM, ALABAMA  
BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

10210

SE, 23 SEP 2010 to 18 NOV 2010

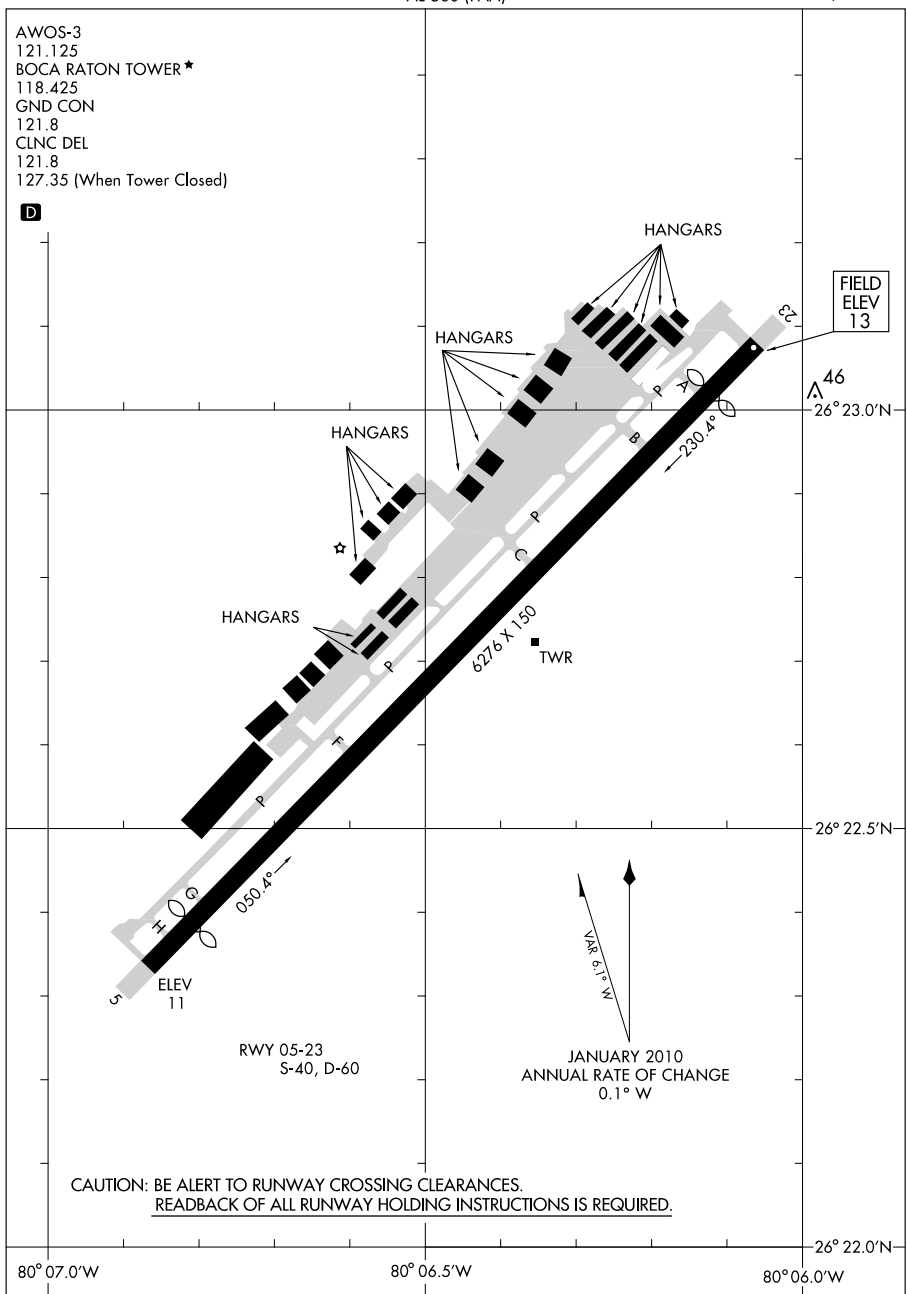
# AIRPORT DIAGRAM

AL-560 (FAA)

BOCA RATON (BCT)  
BOCA RATON, FLORIDA

AWOS-3  
121.125  
BOCA RATON TOWER ★  
118.425  
GND CON  
121.8  
CLNC DEL  
121.8  
127.35 (When Tower Closed)

D



# AIRPORT DIAGRAM

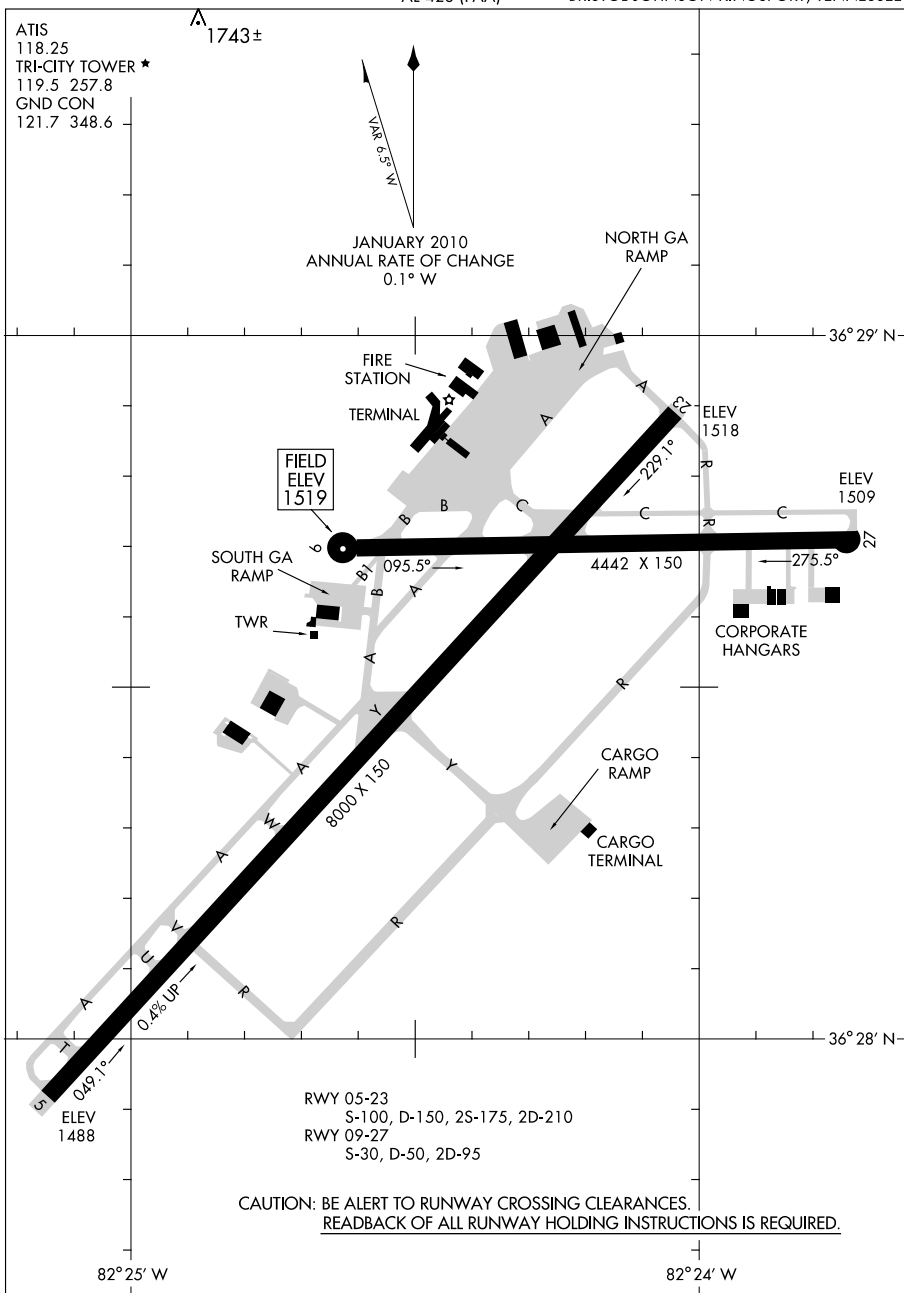
BOCA RATON, FLORIDA  
BOCA RATON (BCT)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

BRISTOL/TRI-CITIES RGNL TN/VA (TRI)  
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE

## AIRPORT DIAGRAM

10210

BRISTOL-JOHNSON-KINGSPORT, TENNESSEE  
BRISTOL/TRI-CITIES RGNL TN/VA (TRI)

SE. 23 SEP 2010 to 18 NOV 2010

10210

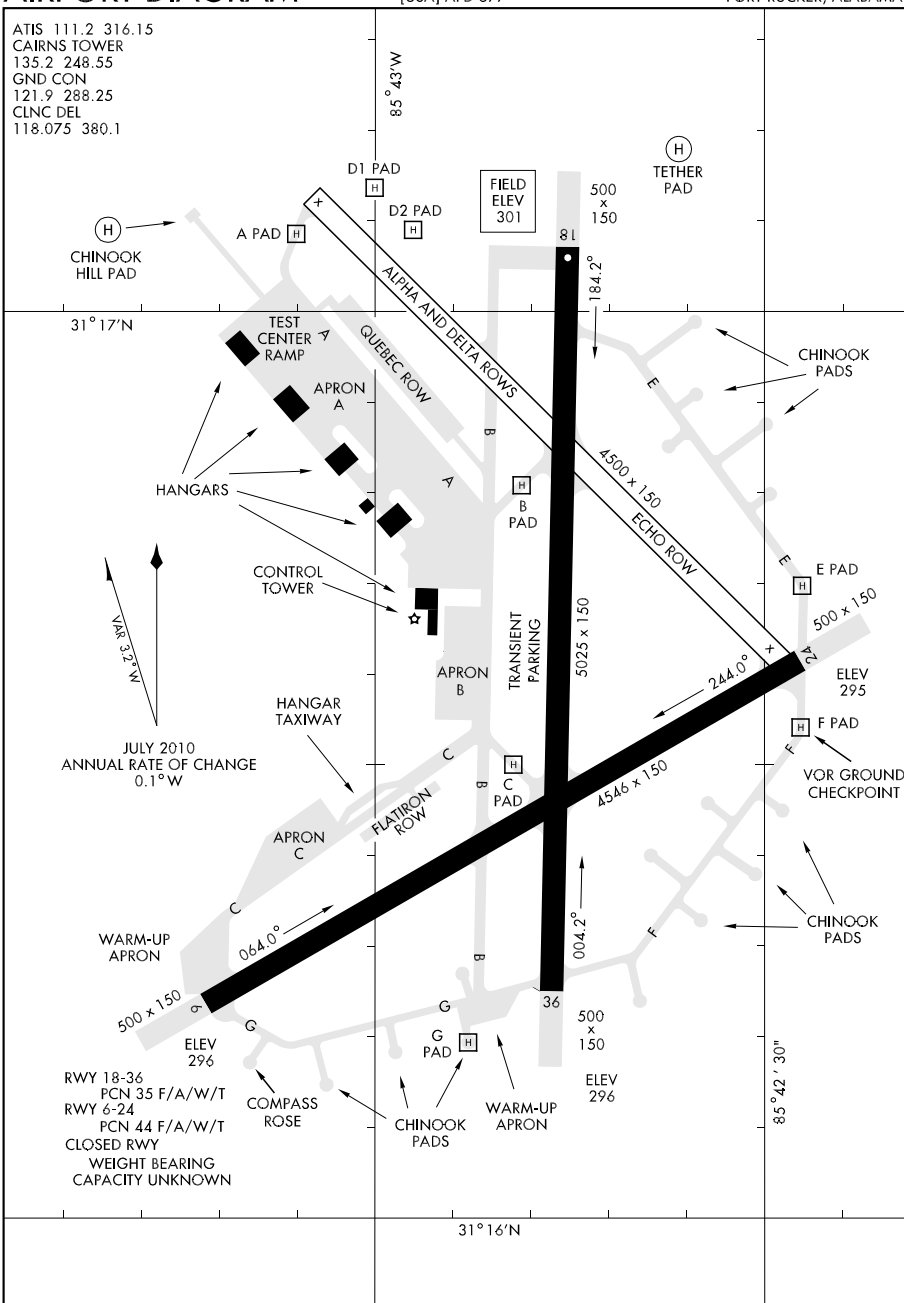
## AIRPORT DIAGRAM

[USA] AFD-577

CAIRNS AAF (KOZR)

FORT RUCKER, ALABAMA

ATIS 111.2 316.15  
 CAIRNS TOWER  
 135.2 248.55  
 GND CON  
 121.9 288.25  
 CLNC DEL  
 118.075 380.1



## AIRPORT DIAGRAM

FORT RUCKER, ALABAMA

CAIRNS AAF (KOZR)

SE. 23 SEP 2010 to 18 NOV 2010

07186

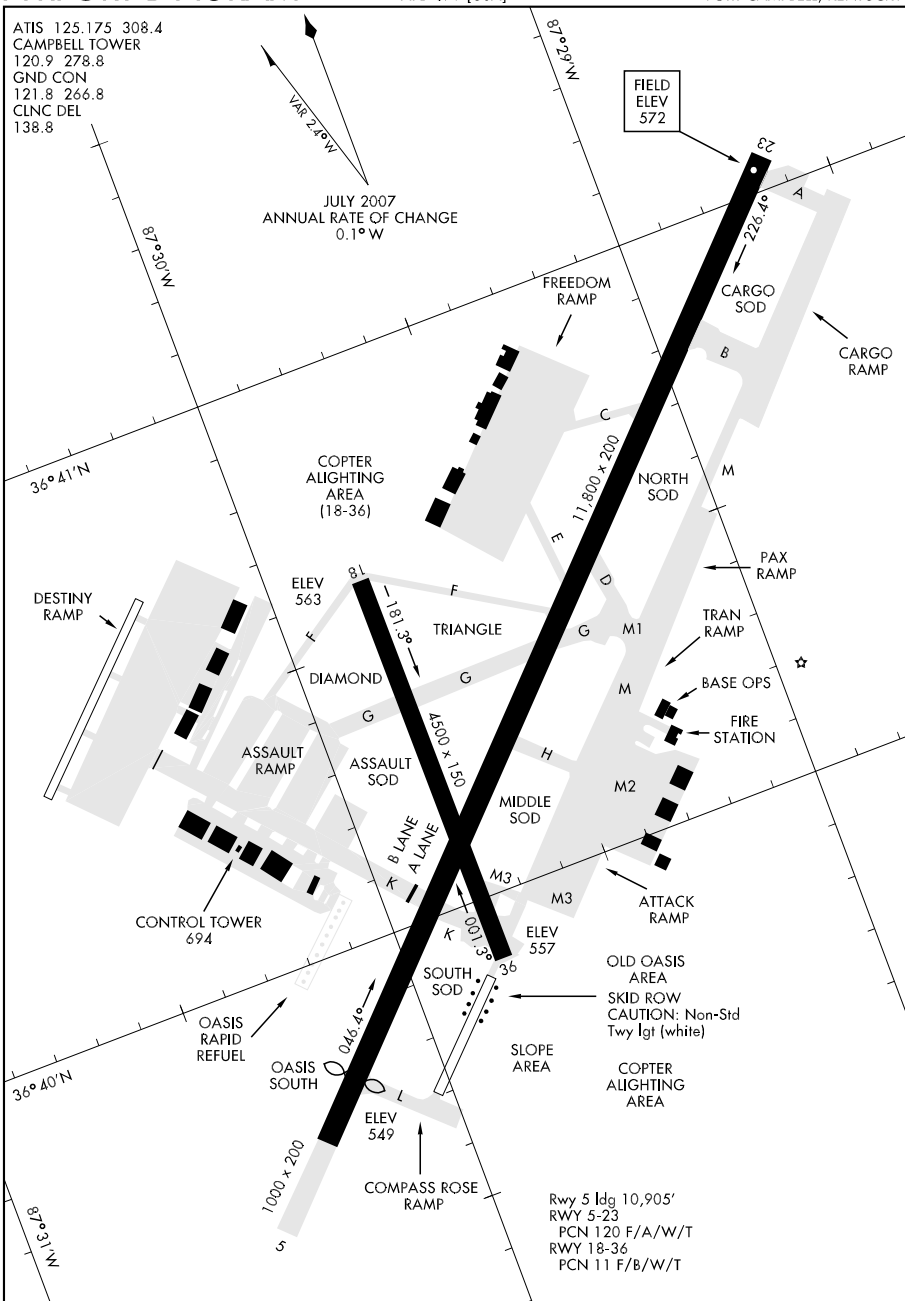
## AIRPORT DIAGRAM

AFD-679 [USA]

CAMPBELL AAF (KHOP)

FORT CAMPBELL, KENTUCKY

ATIS 125.175 308.4  
 CAMPBELL TOWER  
 120.9 278.8  
 GND CON  
 121.8 266.8  
 CLNC DEL  
 138.8



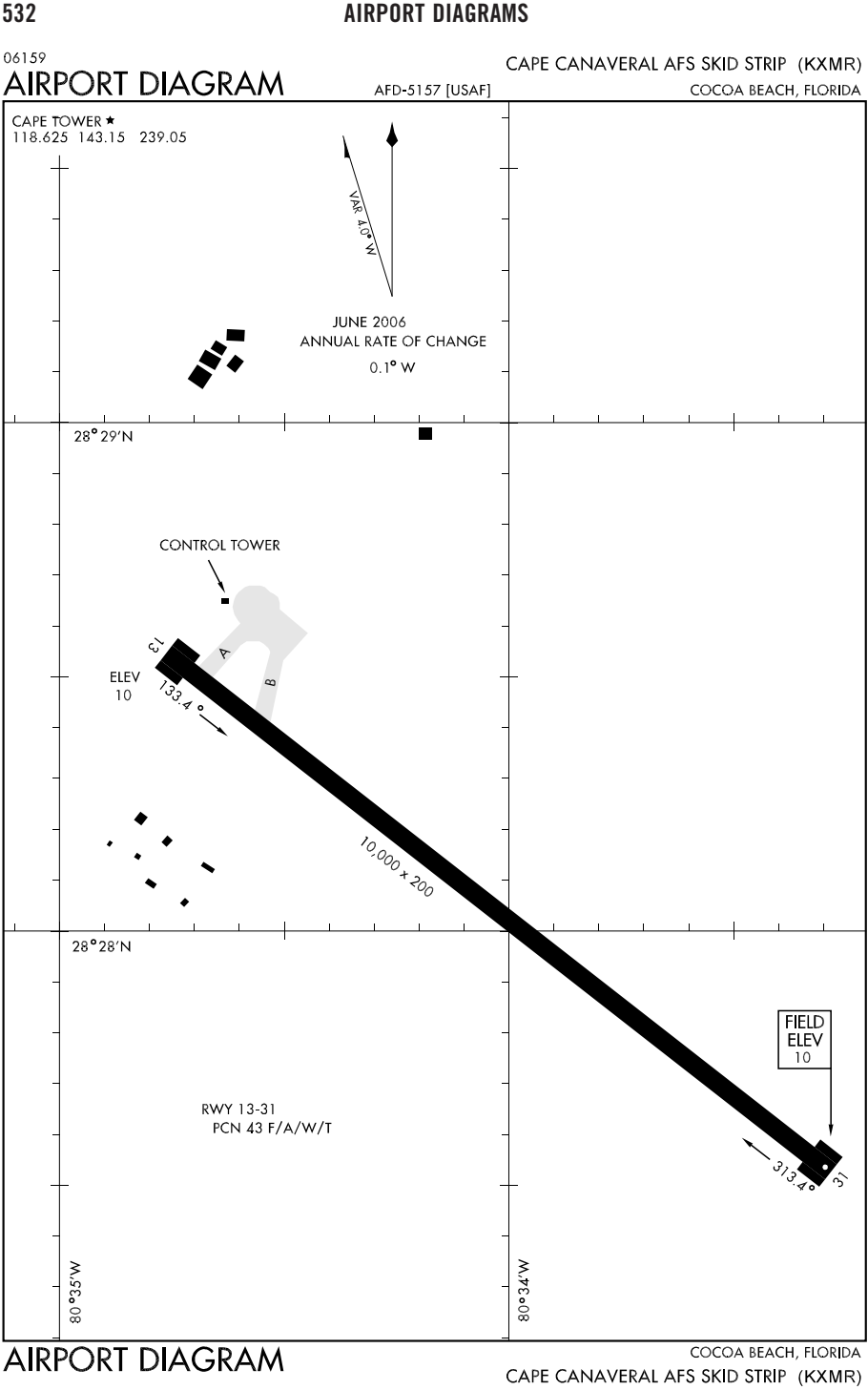
## AIRPORT DIAGRAM

WGS-84 DATUM

FORT CAMPBELL, KENTUCKY

CAMPBELL AAF (KHOP)

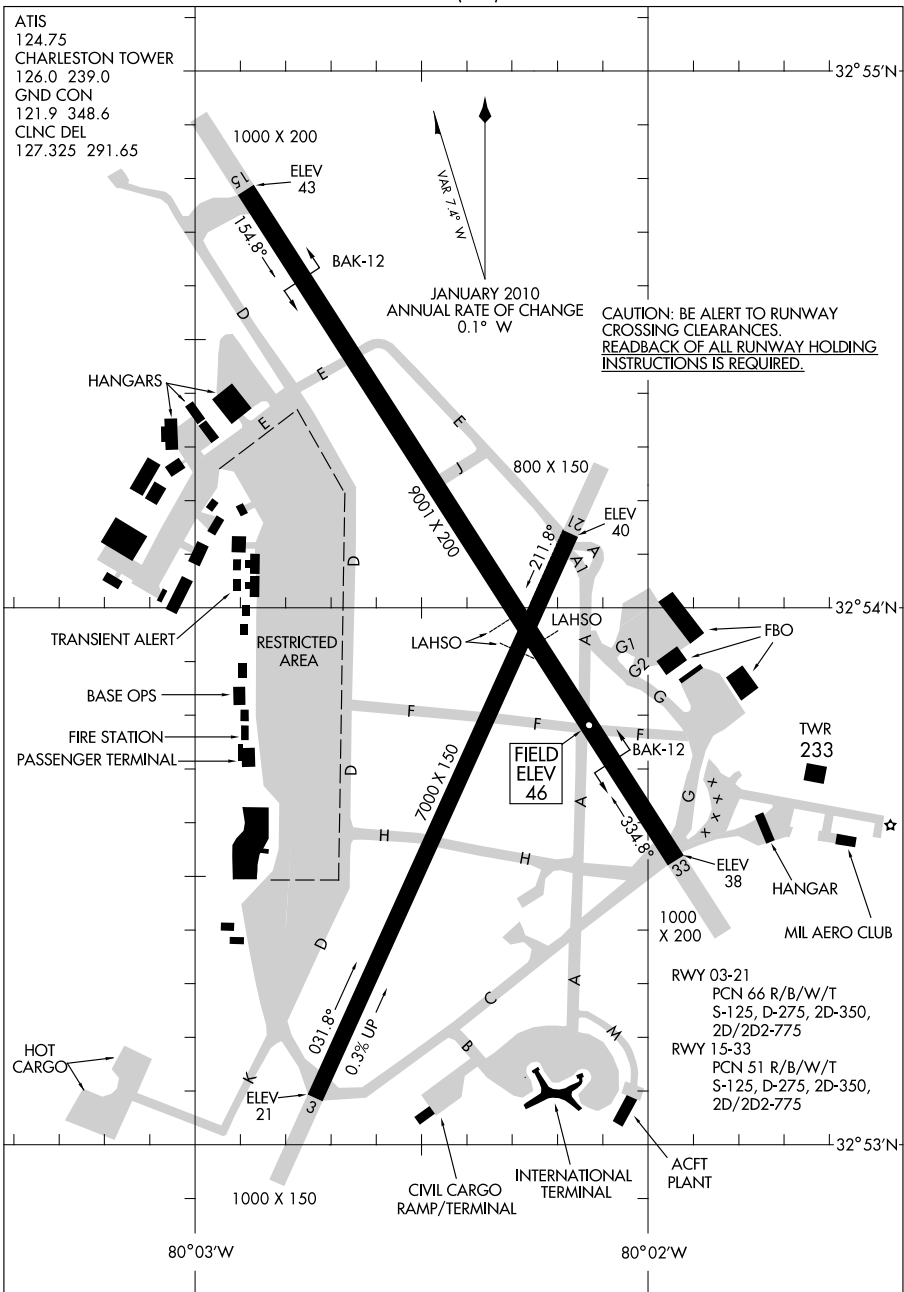
SE. 23 SEP 2010 to 18 NOV 2010



10266

## AIRPORT DIAGRAM

AL-76 (FAA)

CHARLESTON AFB/INTL (CHS)  
CHARLESTON, SOUTH CAROLINA

## AIRPORT DIAGRAM

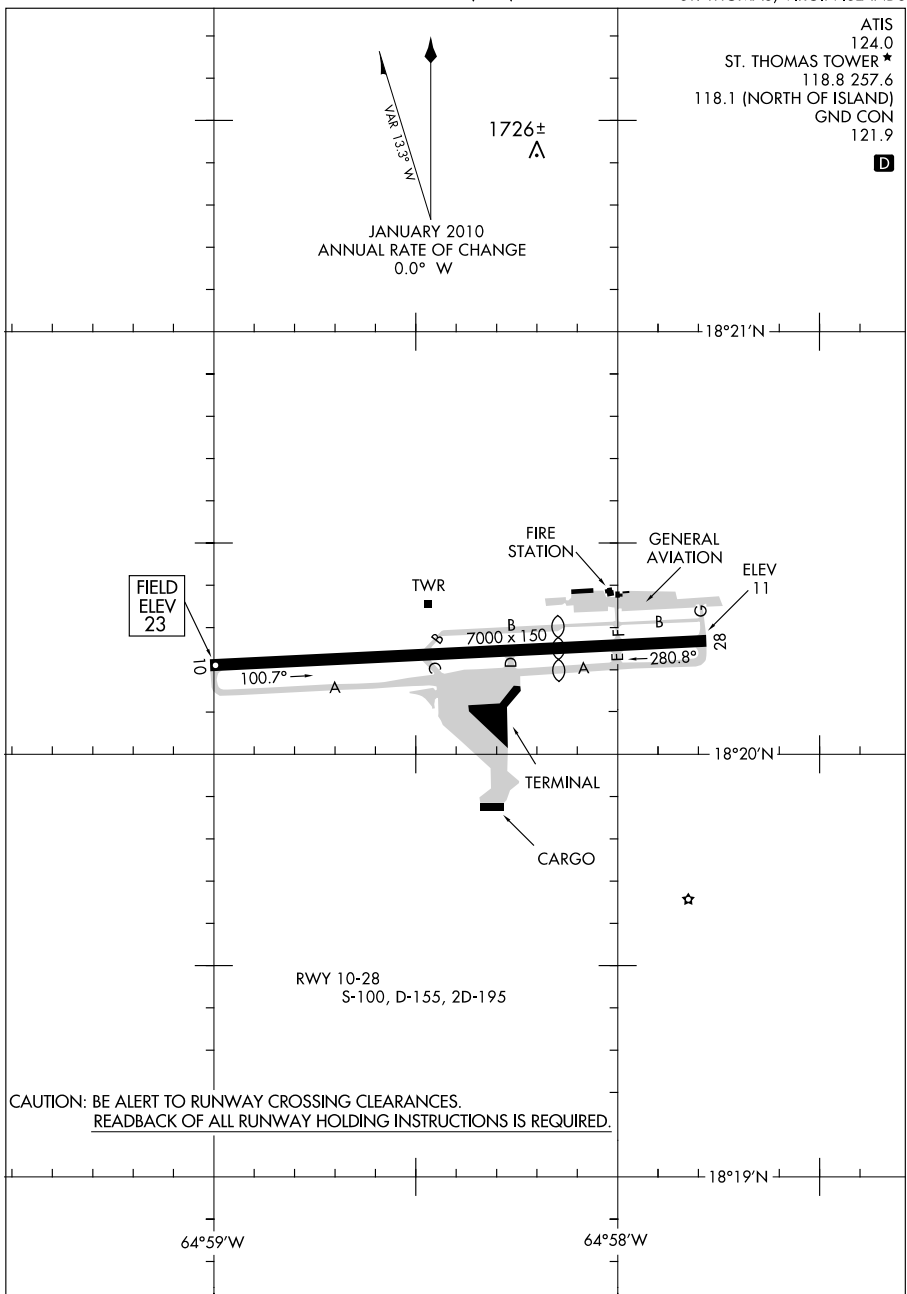
10266

CHARLESTON, SOUTH CAROLINA  
CHARLESTON AFB/INTL (CHS)

10266

# AIRPORT DIAGRAM

CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)  
AL-5005 (FAA) ST. THOMAS, VIRGIN ISLANDS



# AIRPORT DIAGRAM

10266

ST. THOMAS, VIRGIN ISLANDS  
CHARLOTTE AMALIE/ CYRIL E KING (STT)(TIST)

SE. 23 SEP 2010 to 18 NOV 2010





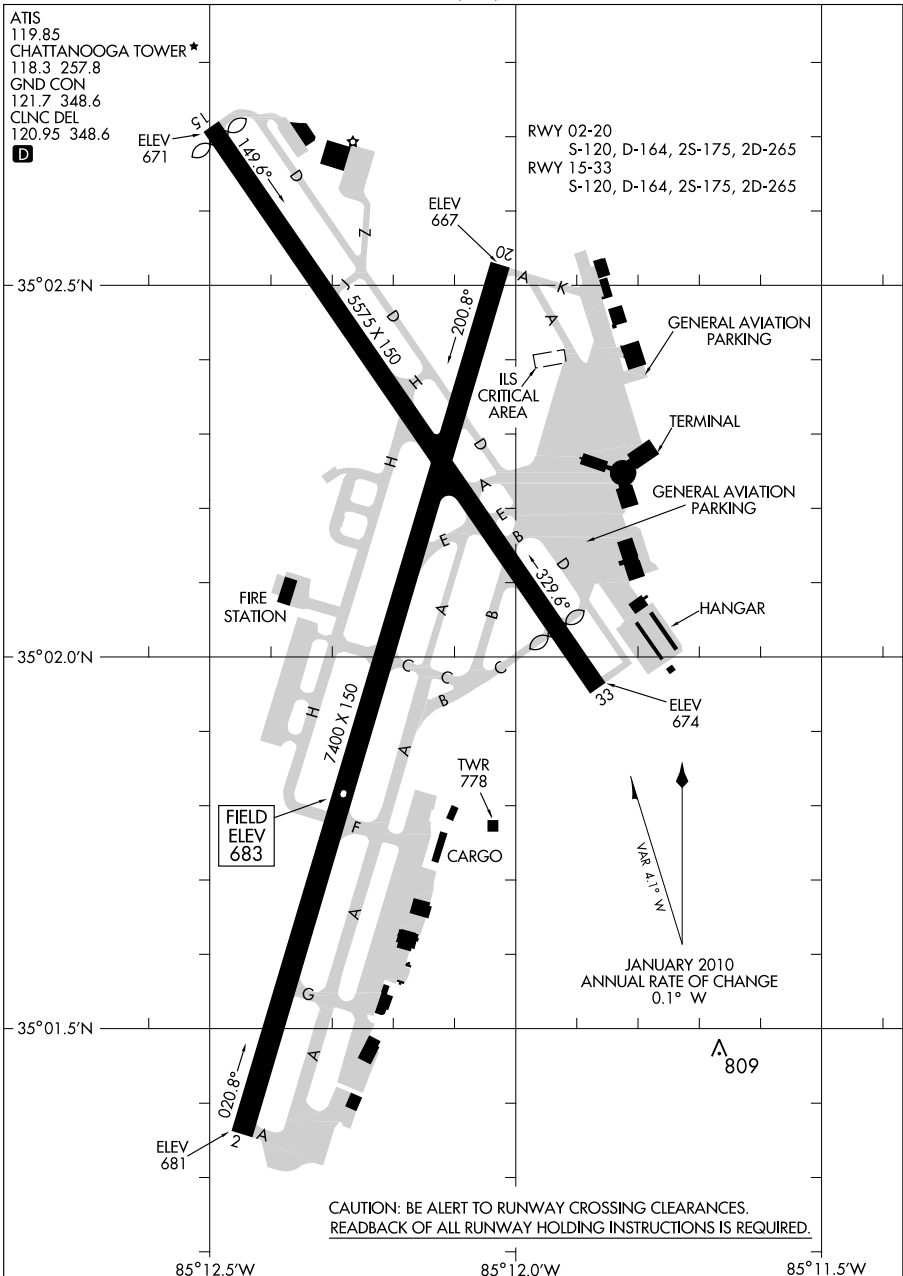
10210

## AIRPORT DIAGRAM

AL-79 (FAA)

CHATTANOOGA/LOVELL FIELD (CHA)

CHATTANOOGA, TENNESSEE



## AIRPORT DIAGRAM

10210

CHATTANOOGA, TENNESSEE

CHATTANOOGA/LOVELL FIELD (CHA)

SE. 23 SEP 2010 to 18 NOV 2010

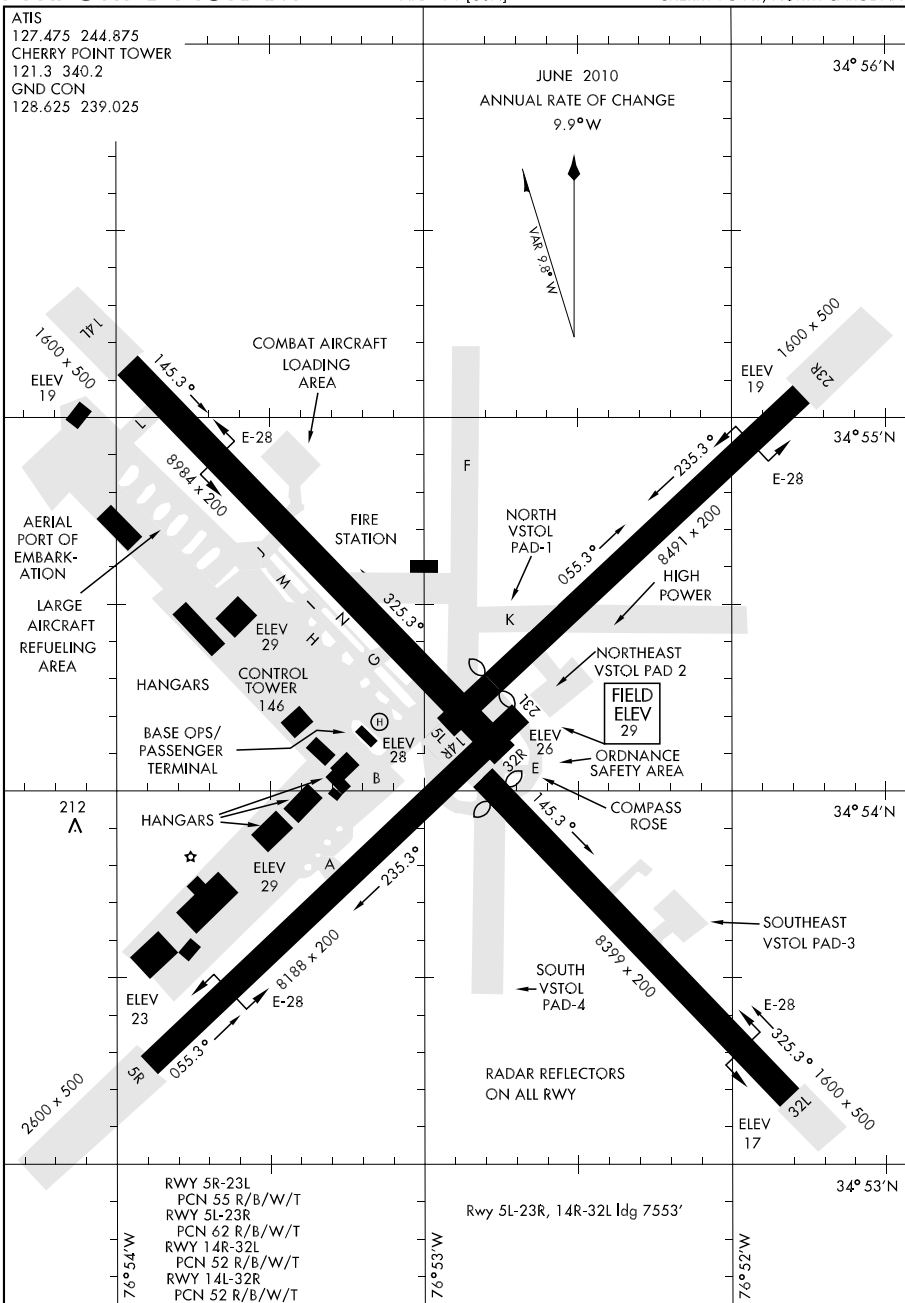
10154

# AIRPORT DIAGRAM

AFD-471 [USN]

CHERRY POINT MCAS (KNKT)

CHERRY POINT, NORTH CAROLINA



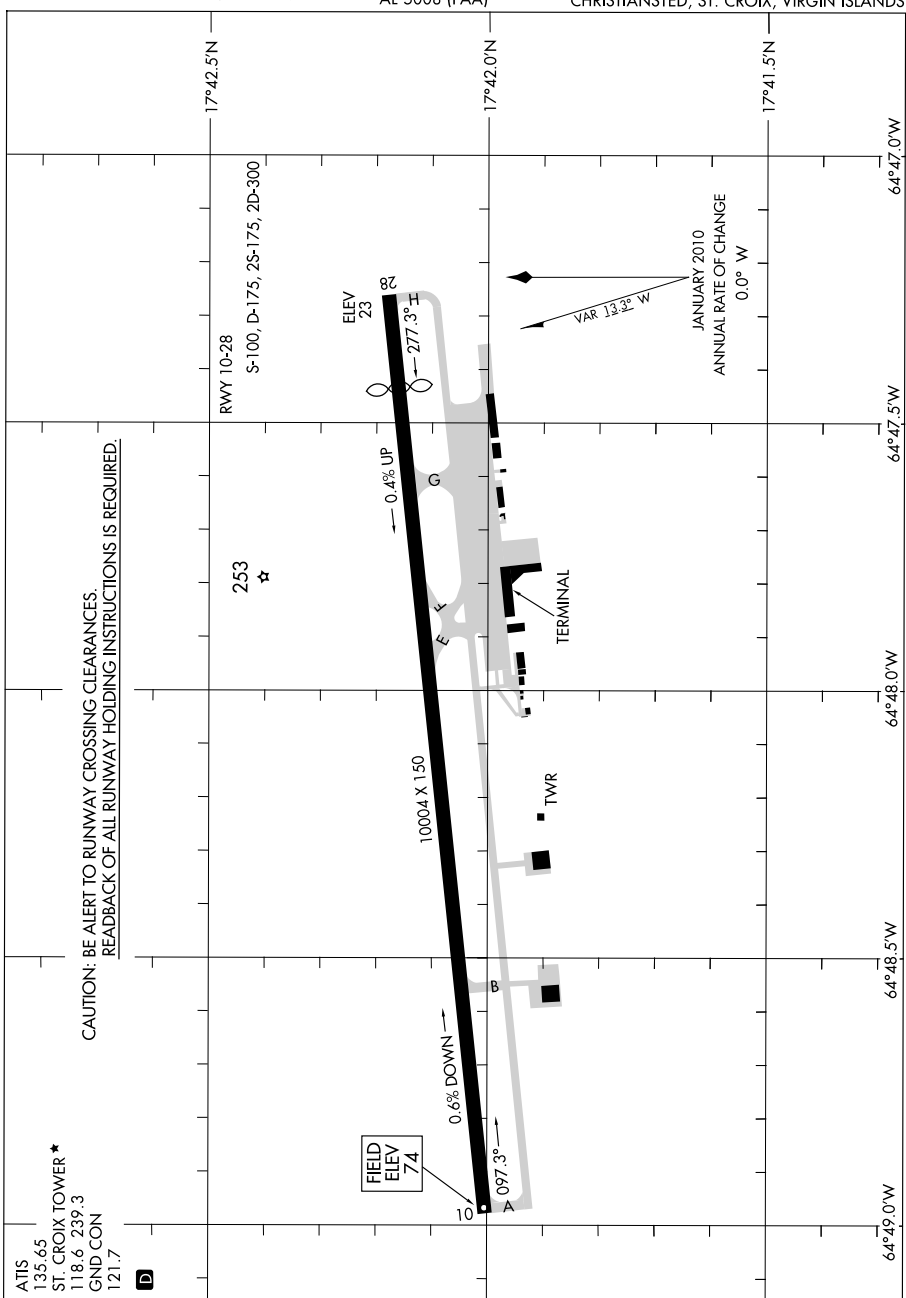
# AIRPORT DIAGRAM

CHERRY POINT, NORTH CAROLINA

CHERRY POINT MCAS (KNKT)

10266

## AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)  
AL-5008 (FAA) CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS

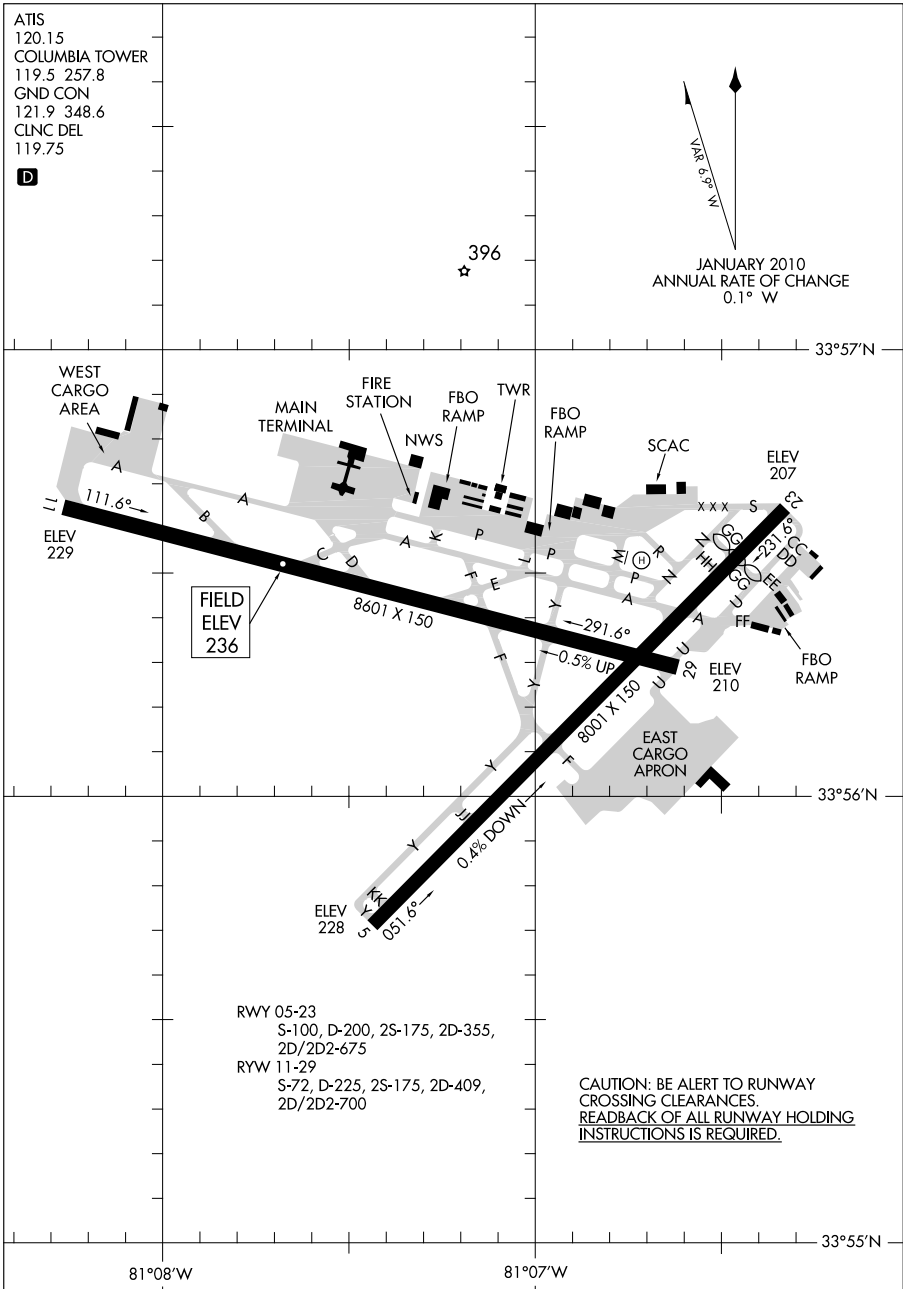
## AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)  
10266

10266

## AIRPORT DIAGRAM

AL-89 (FAA)

COLUMBIA METROPOLITAN (CAE)  
COLUMBIA, SOUTH CAROLINA

## AIRPORT DIAGRAM

10266

COLUMBIA, SOUTH CAROLINA  
COLUMBIA METROPOLITAN (CAE)

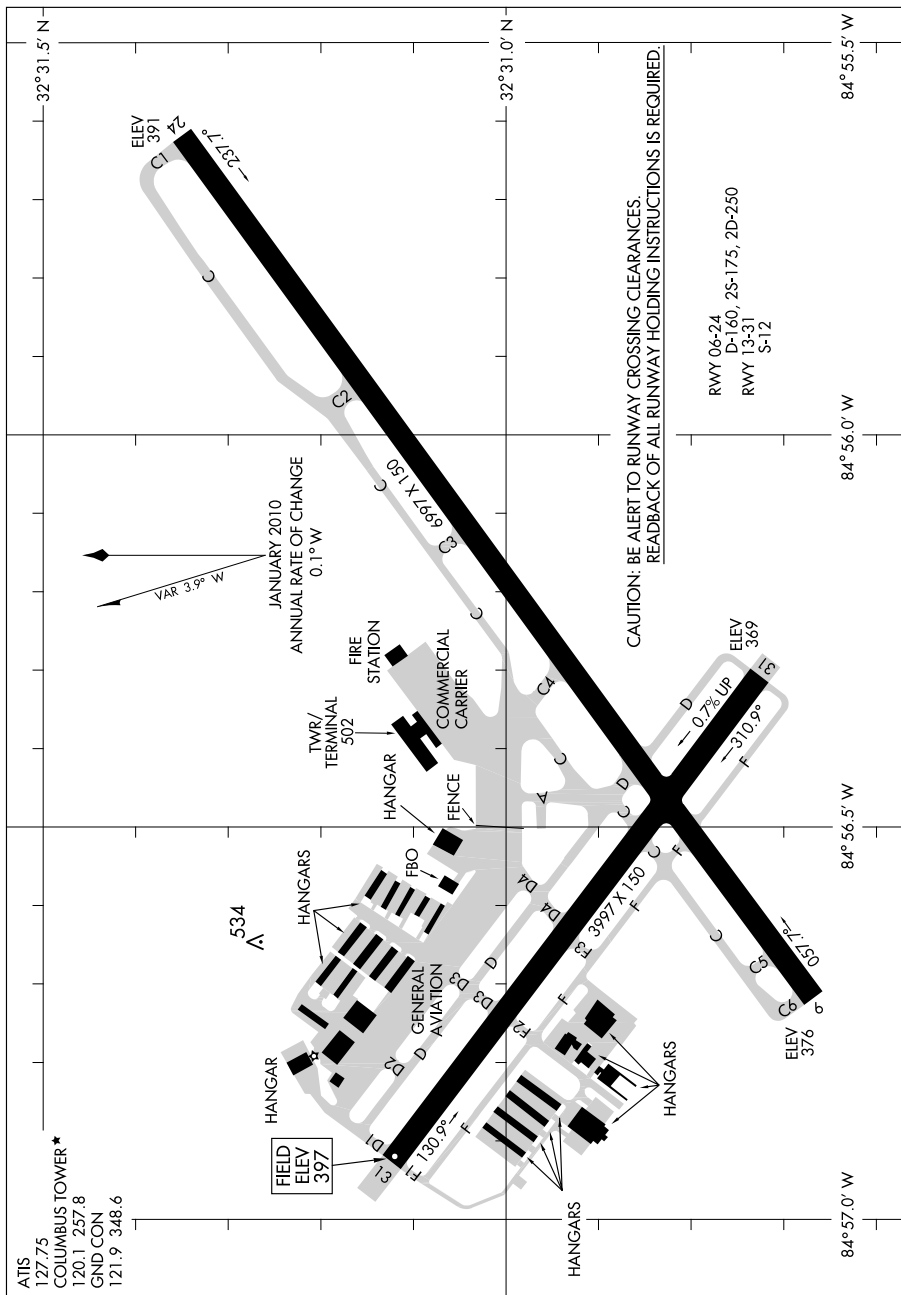
SE. 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

AL-636 (FAA)

COLUMBUS METROPOLITAN (CSG)  
COLUMBUS, GEORGIA



# AIRPORT DIAGRAM

10266

COLUMBUS, GEORGIA  
COLUMBUS METROPOLITAN (CSG)

10210

# AIRPORT DIAGRAM

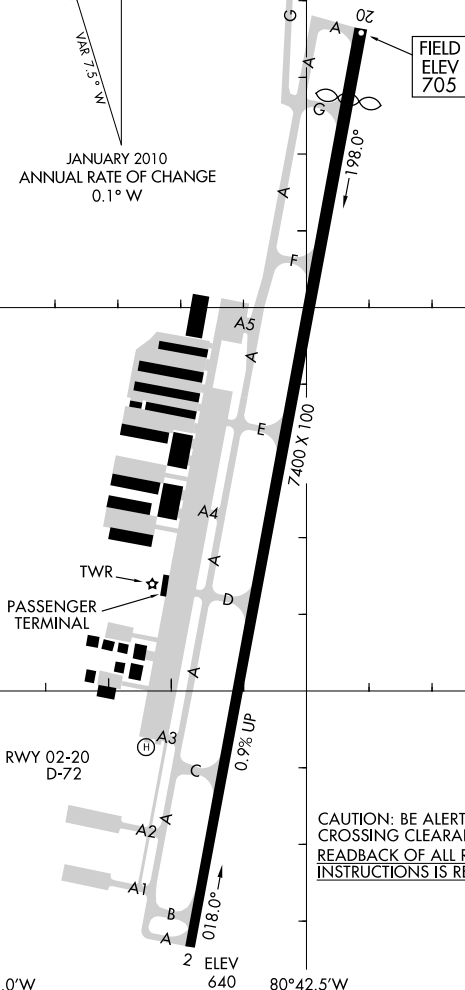
AL-9155 (FAA)

CONCORD RGNL (JQF)  
CONCORD, NORTH CAROLINA

AWOS-3  
133.675  
CONCORD TOWER ★  
134.65  
GND CON  
121.85  
CLNC DEL  
118.55  
CHARLOTTE CLNC DEL  
127.25 (When Tower Closed)

D

VAR 7.5° N  
JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.1° W



35°24.0'N

35°23.5'N

35°23.0'N

80°43.0'W

80°42.5'W

80°42.0'W

# AIRPORT DIAGRAM

10210

CONCORD, NORTH CAROLINA  
CONCORD RGNL (JQF)

SE. 23 SEP 2010 to 18 NOV 2010

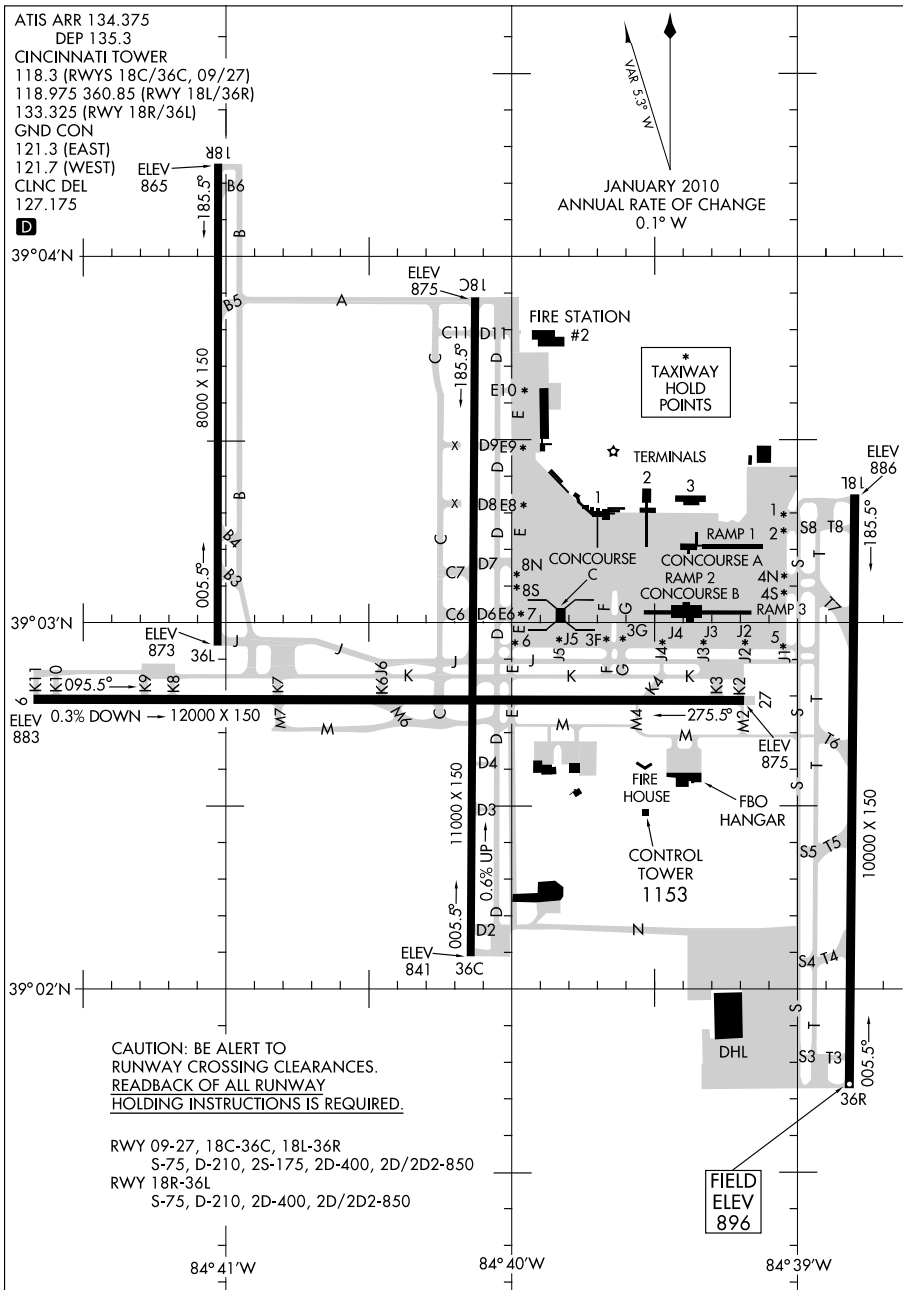
10210

## AIRPORT DIAGRAM

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

AL-655 (FAA)

COVINGTON, KENTUCKY



## AIRPORT DIAGRAM

10210

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

SE. 23 SEP 2010 to 18 NOV 2010





ATIS ★ 269.5  
DOBBINS TOWER ★  
120.75 370.875  
GND CON  
125.3 275.8

VAR 4° 30' W  
DECEMBER 2009  
ANNUAL RATE OF CHANGE  
0.1° W

HANGAR 5  
RAMP

FIELD  
ELEV  
1068

ARM/DEARM  
HOT BRAKES  
HYDRAZINE

WATER  
TANK  
1273

LOCKHEED  
ACFT CORP

ARNG  
RAMP  
1

BAK-12

ARNG  
RAMP  
2

ELEV  
1050

HOT BRAKES

LOCKHEED  
ACFT CORP

ELEV  
1020

FUEL TANK  
FARM

LAC B-53  
RAMP

HOT BRAKES

ASSAULT  
STRIP  
(VEDA)

HOT CARGO

ARMY  
RESERVE

ARM/DEARM  
HOT BRAKES  
HYDRAZINE

HOT BRAKES

FIRE  
STATION

CONTROL  
TOWER

TRANSIENT  
PARKING

BASE OPS

AFRC  
C130  
RAMP

STADIUM  
LIGHTS

AFRC  
C130  
RAMP

TACAN  
BAK-12

HOT BRAKES

Rwy 11-29  
S200, T300, ST175,  
TT560, TDT765  
PCN 83 R/B/W/T

Rwy 1-19  
S175  
PCN 43 R/C/W/T

# AIRPORT DIAGRAM

DOBBINS ARB (KMGE)

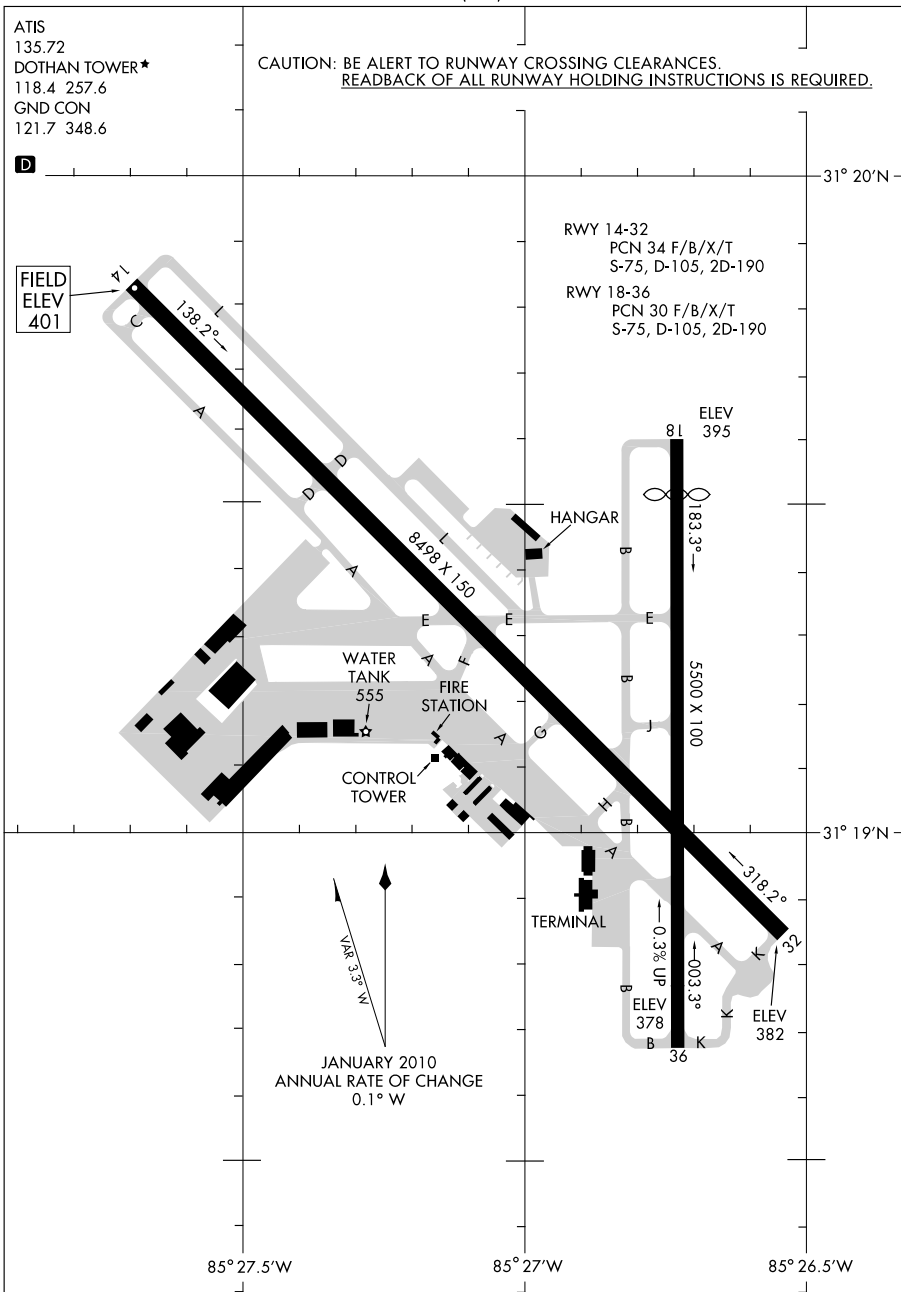
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-123 (FAA)

DOTHAN RGNL (DHN)  
DOTHAN, ALABAMA



# AIRPORT DIAGRAM

10210

DOTHAN, ALABAMA  
DOTHAN RGNL (DHN)

10210

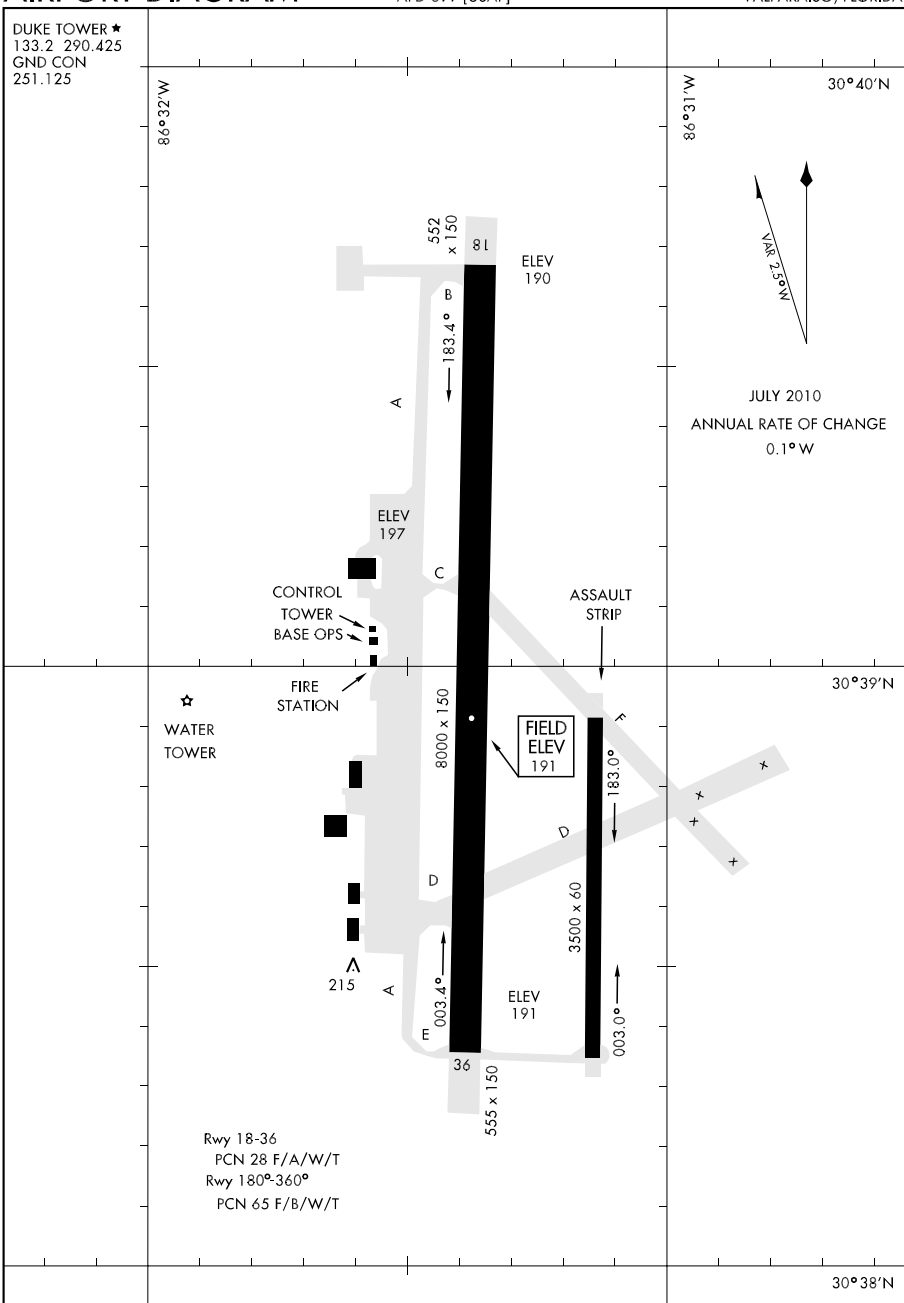
# AIRPORT DIAGRAM

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

AFD-699 [USAF]

VALPARAISO, FLORIDA

DUKE TOWER ★  
133.2 290.425  
GND CON  
251.125



# AIRPORT DIAGRAM

VALPARAISO, FLORIDA

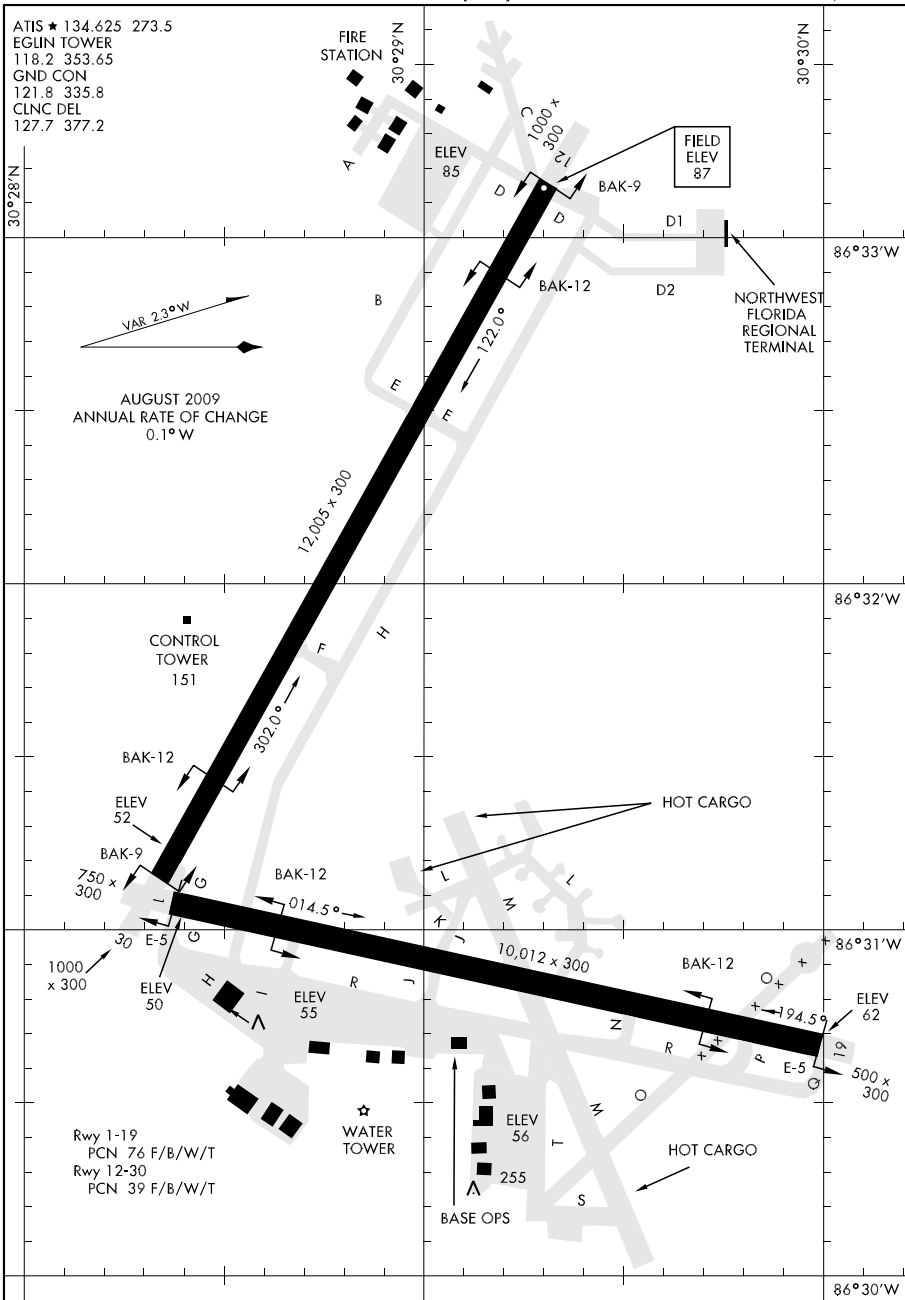
DUKE FLD (EGLIN AF AUX NR3) (KEGI)

SE. 23 SEP 2010 to 18 NOV 2010

## AIRPORT DIAGRAM

VALPARAISO, FLORIDA

AFD-436 [USAF]



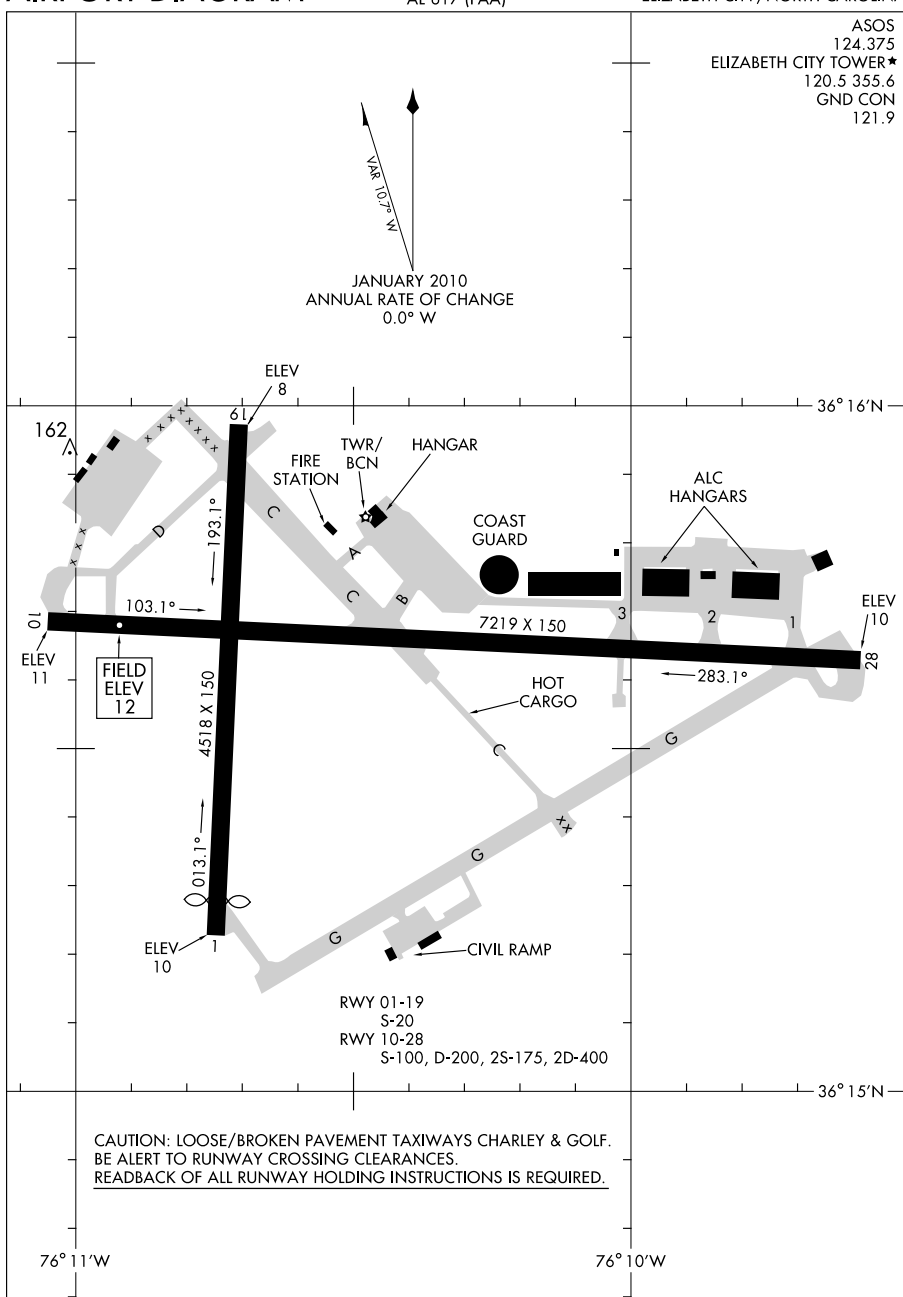
# AIRPORT DIAGRAM

EGLIN AFB (KVPS)

SE, 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/C/G)  
AL-617 (FAA) ELIZABETH CITY, NORTH CAROLINA



# AIRPORT DIAGRAM

ELIZABETH CITY, NORTH CAROLINA  
ELIZABETH CITY COAST GUARD AIR STATION/RGNL (E/C/G)

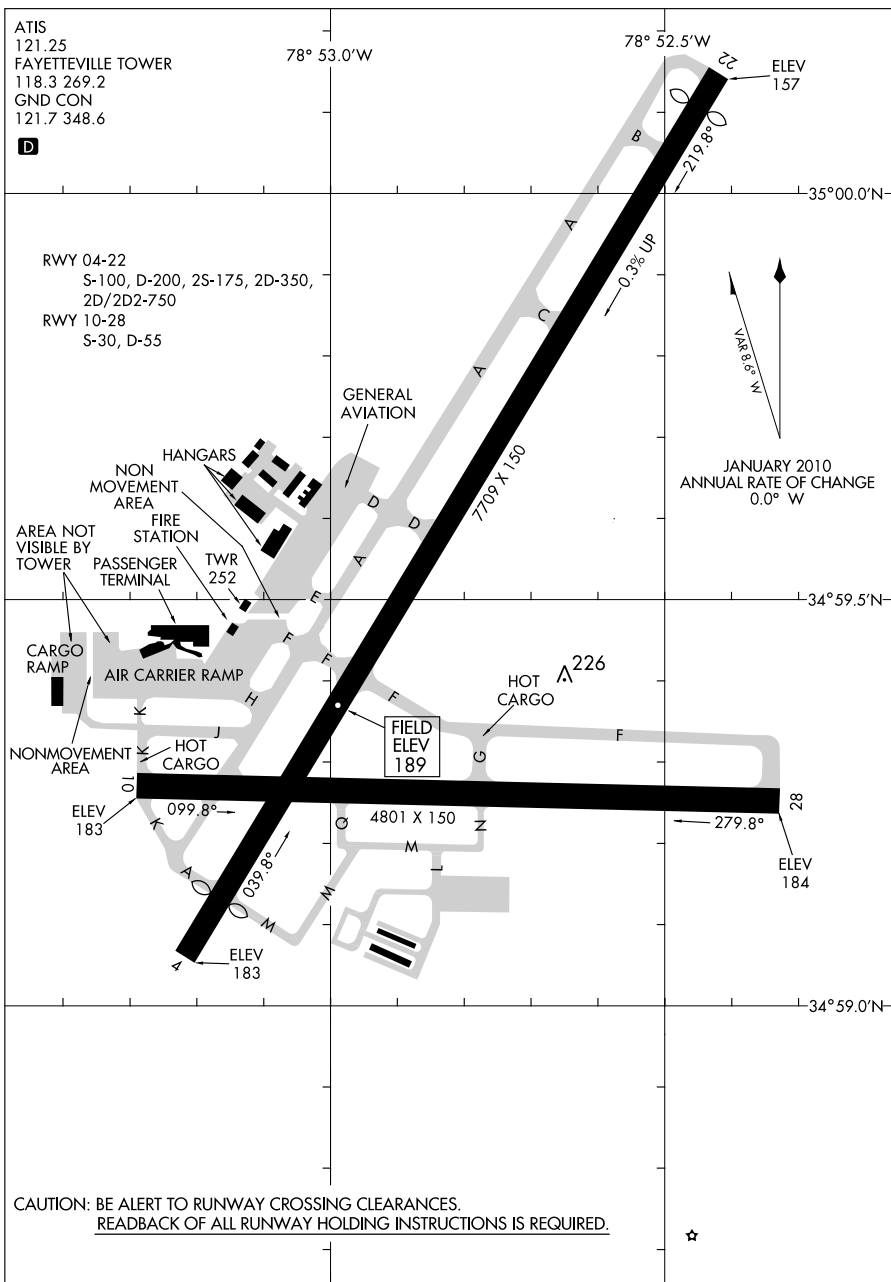
10210

## AIRPORT DIAGRAM

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

AL-690 (FAA)

FAYETTEVILLE, NORTH CAROLINA



## AIRPORT DIAGRAM

10210

FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

SE. 23 SEP 2010 to 18 NOV 2010

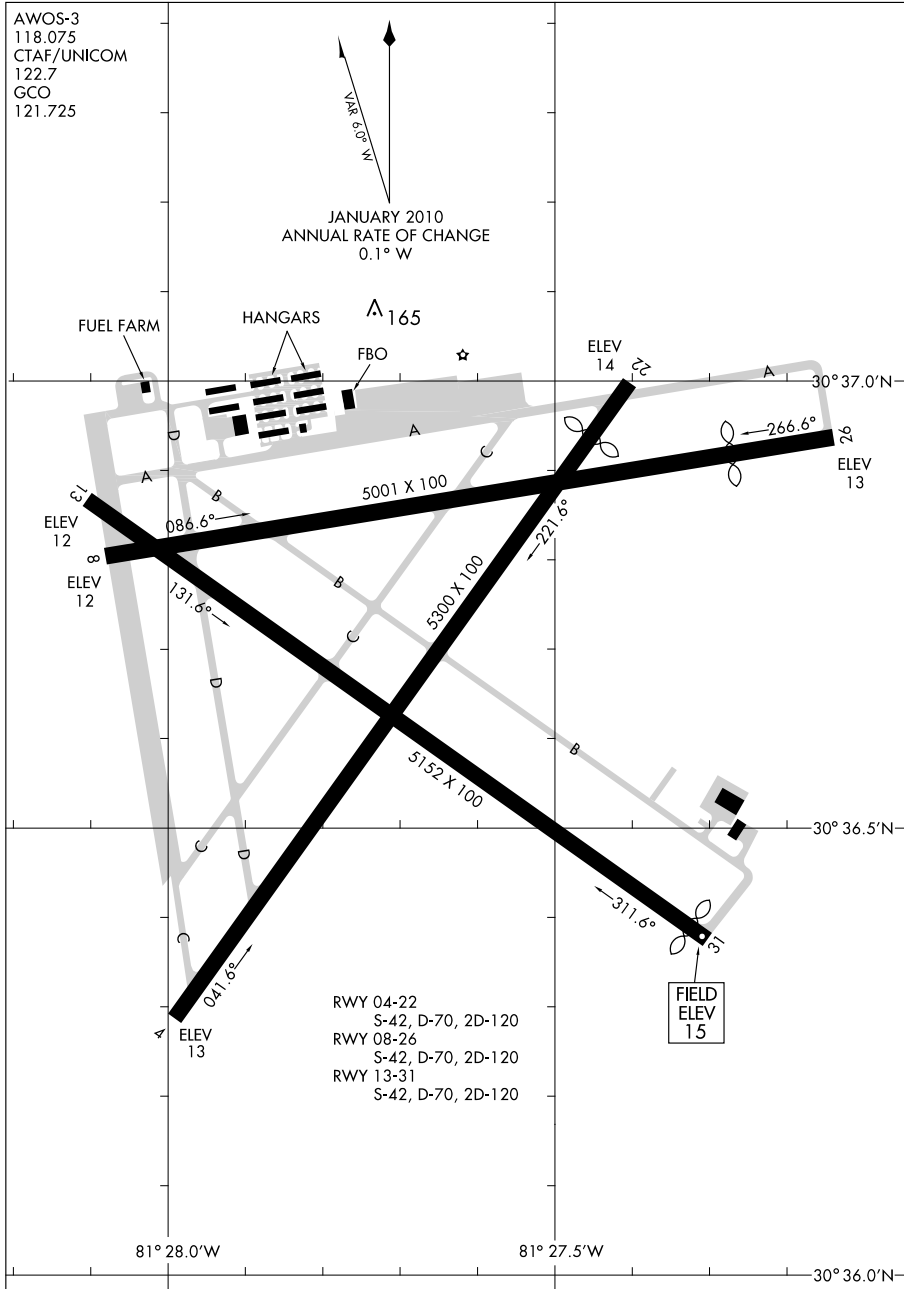
10210

## AIRPORT DIAGRAM

AL-6597 (FAA)

FERNANDINA BEACH MUNI (FHB)

FERNANDINA BEACH, FLORIDA



## AIRPORT DIAGRAM

10210

FERNANDINA BEACH, FLORIDA  
FERNANDINA BEACH MUNI (FHB)

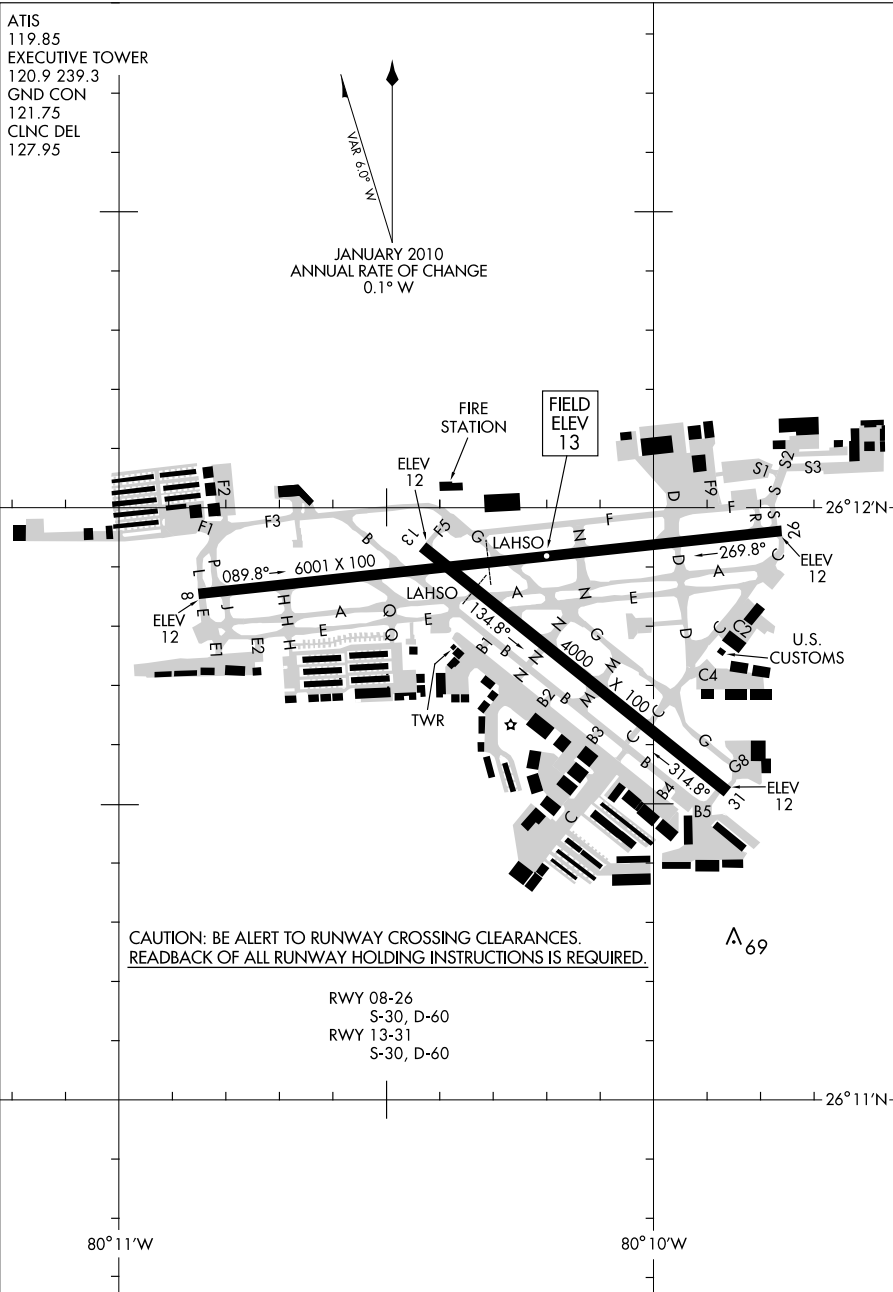
SE. 23 SEP 2010 to 18 NOV 2010





10210  
AIRPORT DIAGRAM

AL-5942 (FAA) FORT LAUDERDALE EXECUTIVE (FXE)  
FORT LAUDERDALE, FLORIDA



AIRPORT DIAGRAM  
10210

FORT LAUDERDALE, FLORIDA  
FORT LAUDERDALE EXECUTIVE (FXE)

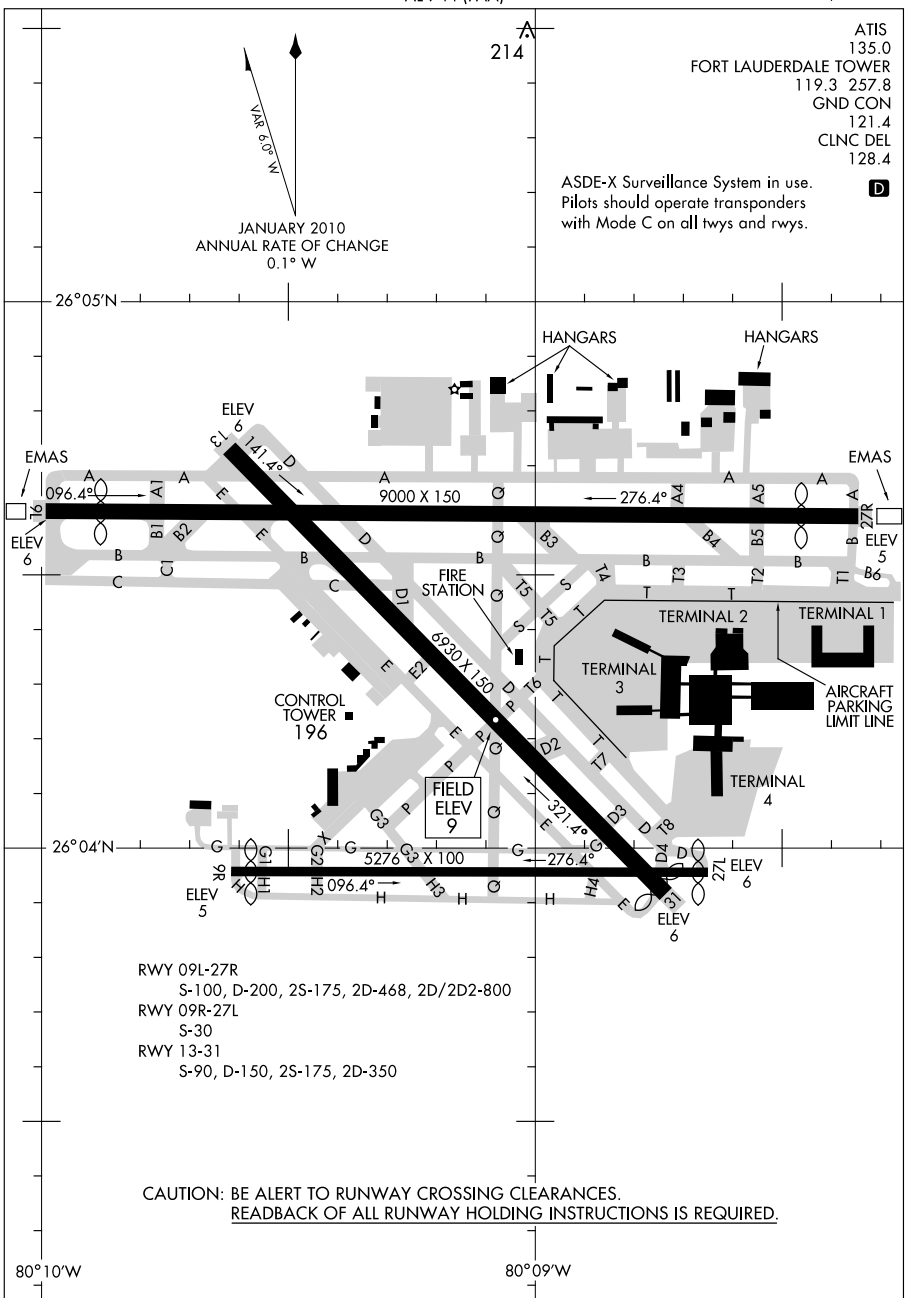
10210

# AIRPORT DIAGRAM

AL-744 (FAA)

FORT LAUDERDALE-HOLLYWOOD INTL (FLL)

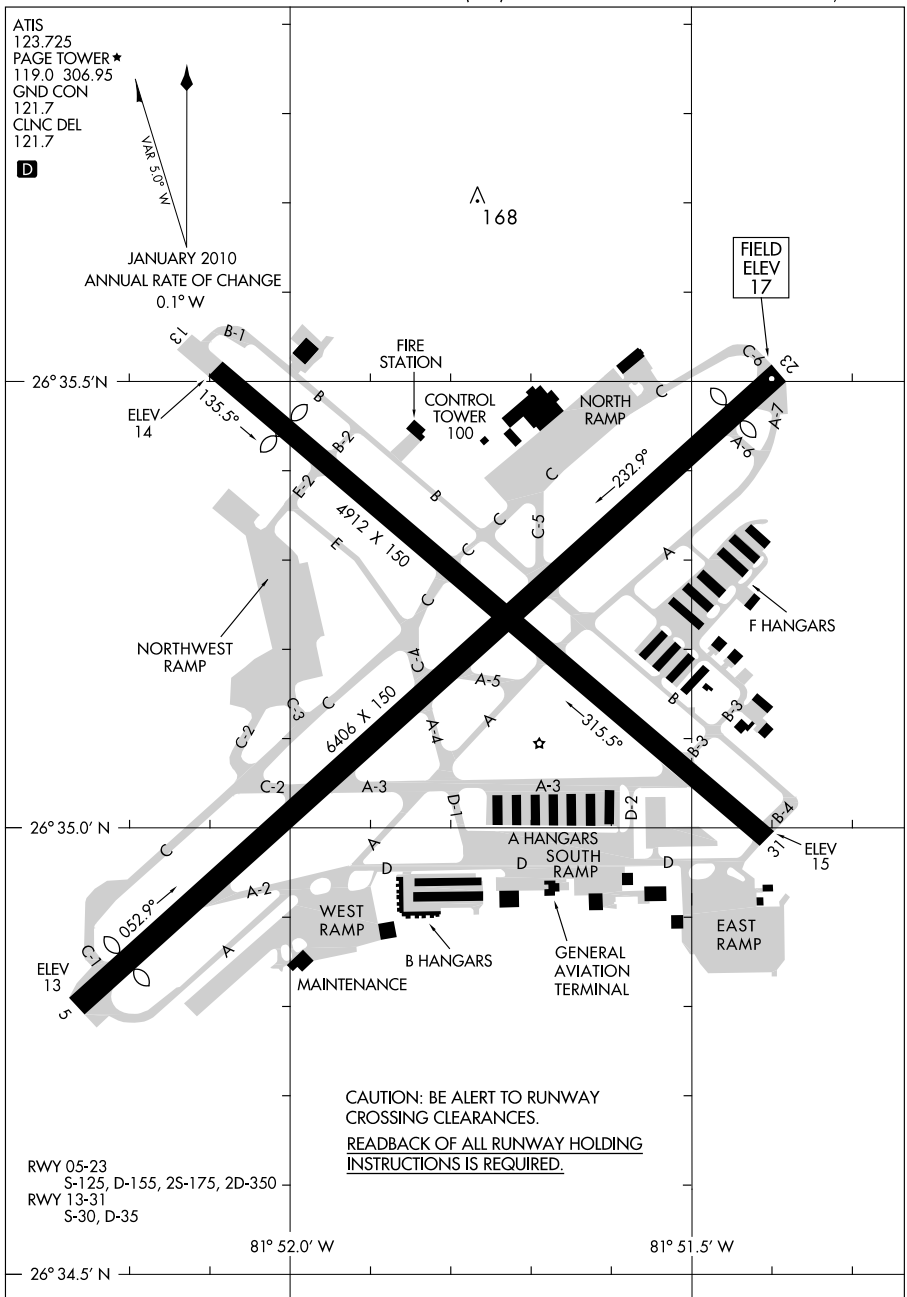
FORT LAUDERDALE, FLORIDA



# AIRPORT DIAGRAM

AL-154 (FAA)

FORT MYERS /PAGE FIELD (FMY)  
FORT MYERS, FLORIDA



# AIRPORT DIAGRAM

FORT MYERS, FLORIDA  
FORT MYERS /PAGE FIELD (FMY)

SE. 23 SEP 2010 to 18 NOV 2010

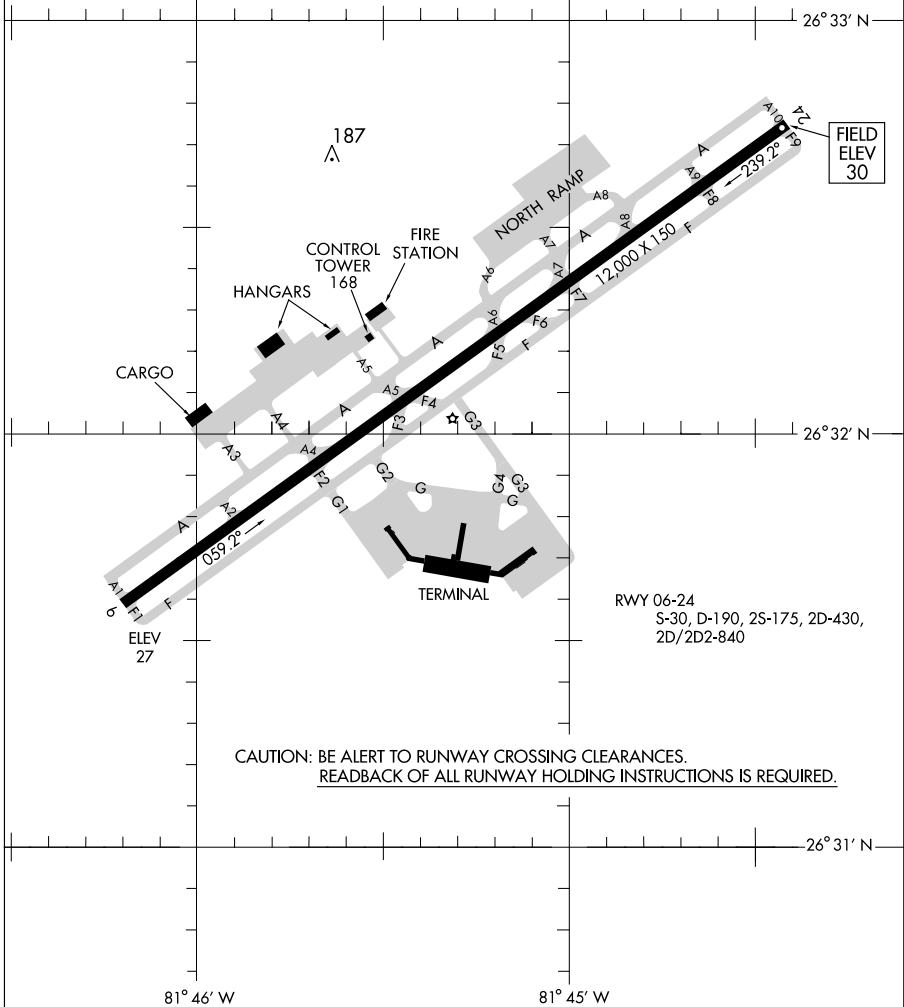
10210

## AIRPORT DIAGRAM

FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)  
AL-6757 (FAA) FORT MYERS, FLORIDA

ATIS  
124.65  
FORT MYERS TOWER ★  
128.75 257.8  
GND CON  
121.9 348.6  
CLNC DEL  
132.075

JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.1° W



## AIRPORT DIAGRAM

10210

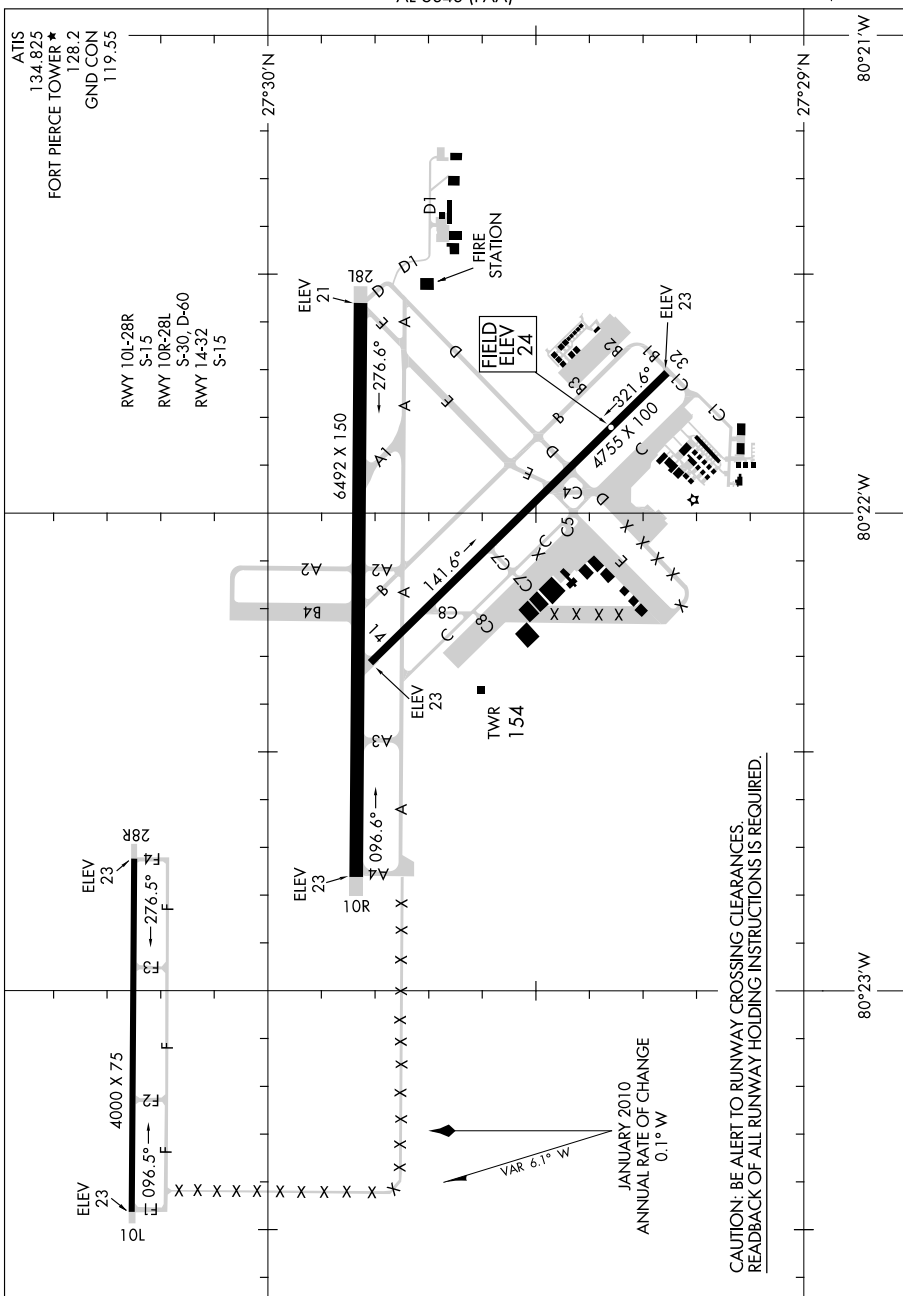
FORT MYERS, FLORIDA  
FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)

SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)  
AL-5343 (FAA) FORT PIERCE, FLORIDA



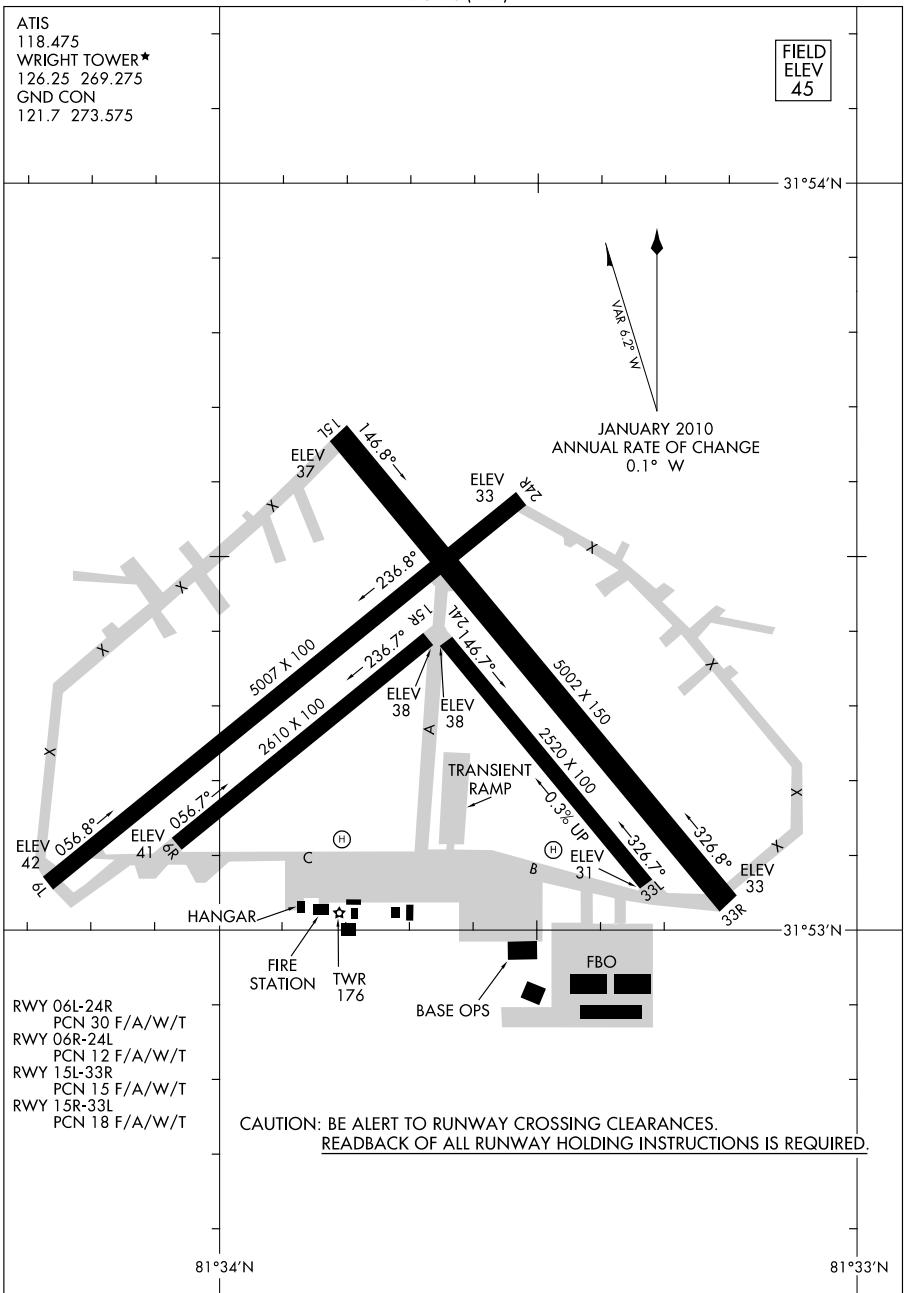
## AIRPORT DIAGRAM

FORT PIERCE, FLORIDA  
FORT PIERCE/ST. LUCIE COUNTY INTL (FPR)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10210 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)  
**AIRPORT DIAGRAM** AL-5170 (FAA) FORT STEWART(HINESVILLE), GEORGIA

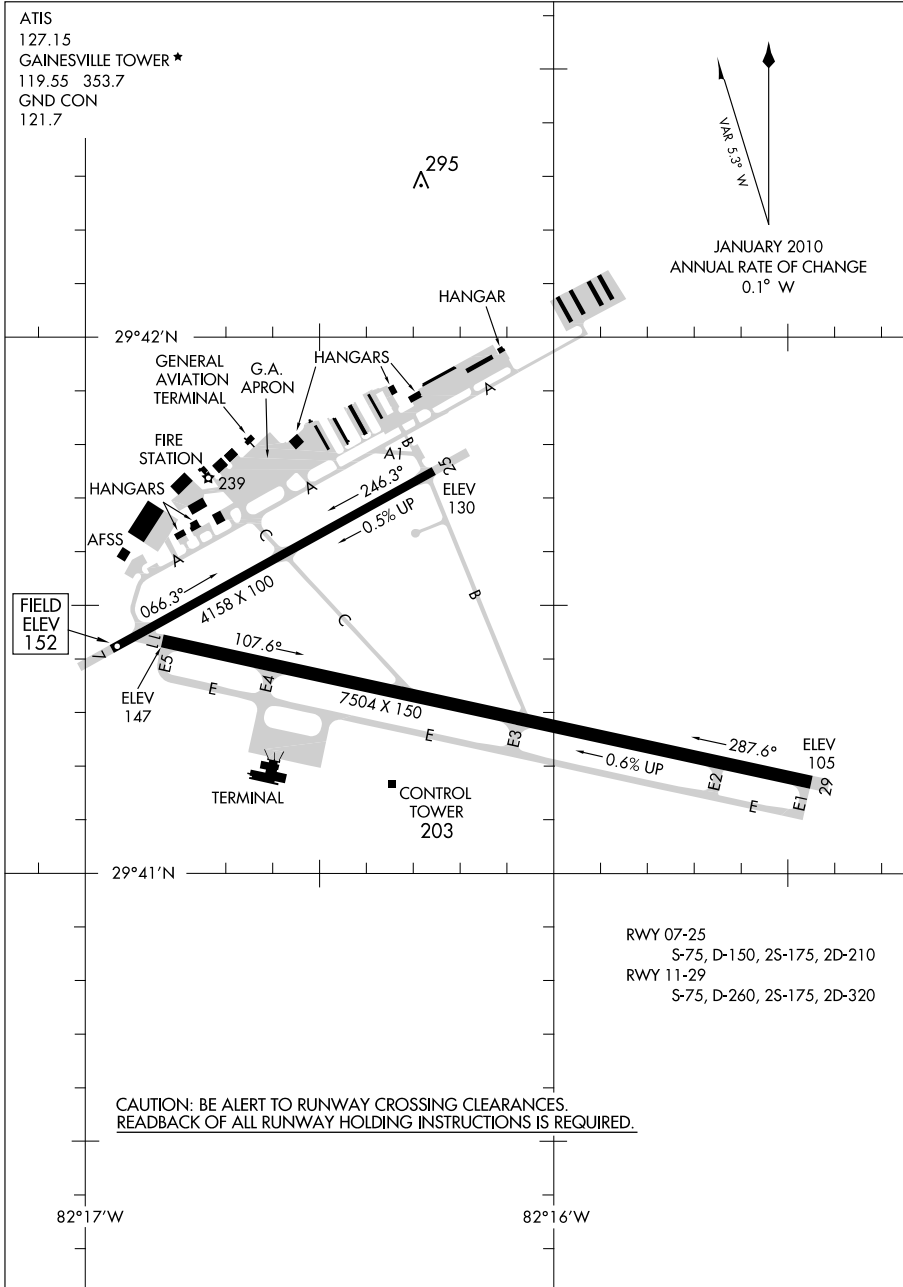


**AIRPORT DIAGRAM** FORT STEWART(HINESVILLE), GEORGIA  
 10210 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)

10210

## AIRPORT DIAGRAM

AL-973 (FAA)

GAINESVILLE RGNL (GNV)  
GAINESVILLE, FLORIDA

## AIRPORT DIAGRAM

10210

GAINESVILLE, FLORIDA  
GAINESVILLE RGNL (GNV)

SE. 23 SEP 2010 to 18 NOV 2010



GREENSBORO, NORTH CAROLINA



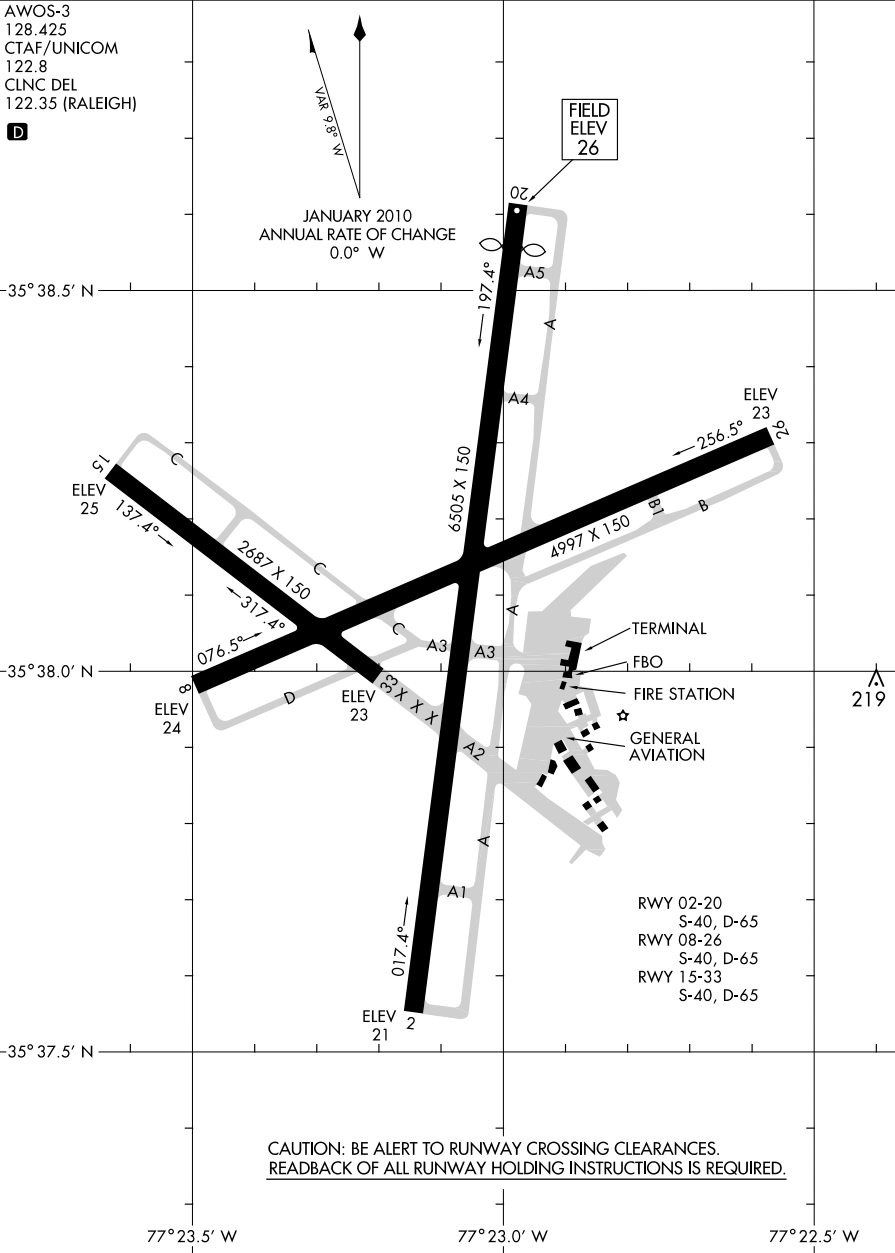
SE, 23 SEP 2010 to 18 NOV 2010

10210  
AIRPORT DIAGRAM

AL-5521 (FAA)

GREENVILLE/PITT-GREENVILLE (PGV)  
GREENVILLE, NORTH CAROLINA

AWOS-3  
128.425  
CTAF/UNICOM  
122.8  
CLNC DEL  
122.35 (RALEIGH)  
D



AIRPORT DIAGRAM  
10210

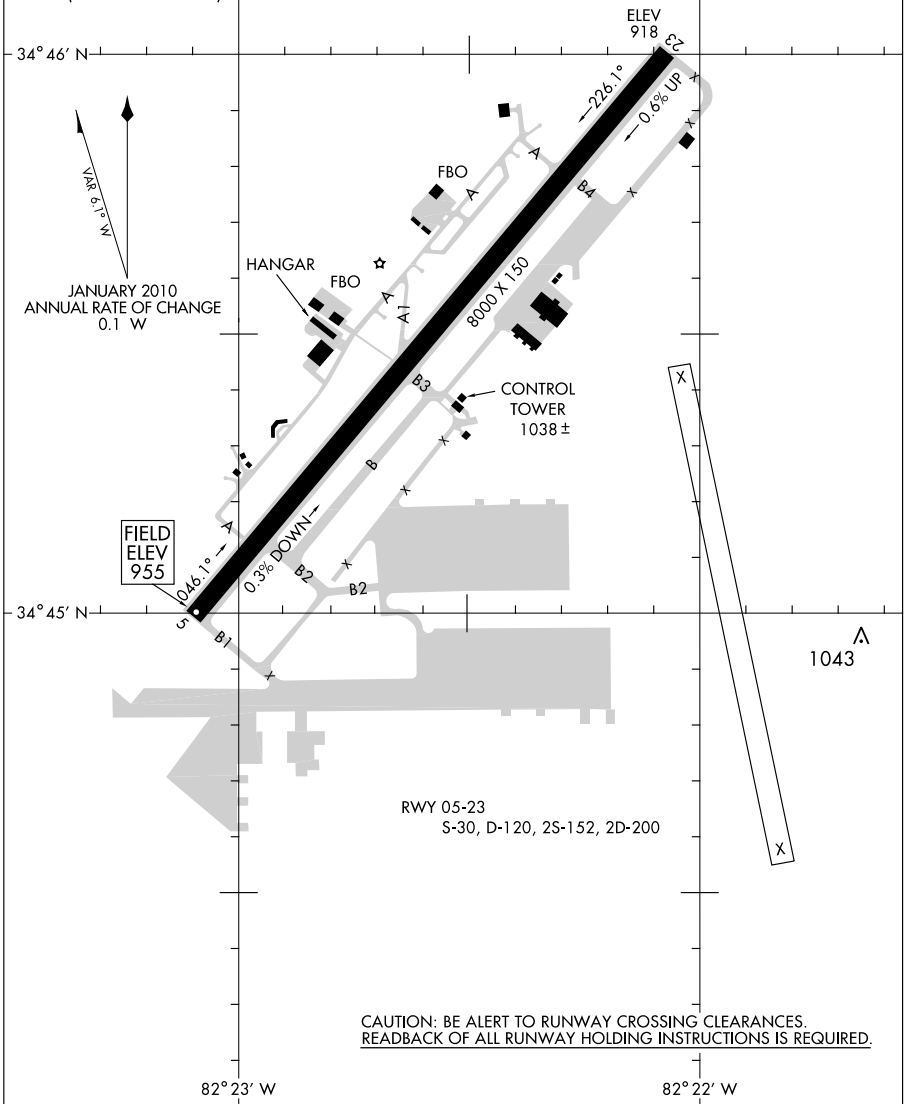
GREENVILLE, NORTH CAROLINA  
GREENVILLE/PITT-GREENVILLE (PGV)

10210

# AIRPORT DIAGRAM

GREENVILLE/ DONALDSON CENTER (GYH)  
AL-179 (FAA) GREENVILLE, SOUTH CAROLINA

AWOS-3  
127.325  
DONALDSON TOWER ★  
133.325 269.25  
GND CON  
121.4  
CLNC DEL  
121.4  
125.95 (When Tower Closed)



# AIRPORT DIAGRAM

10210

GREENVILLE, SOUTH CAROLINA  
GREENVILLE/ DONALDSON CENTER (GYH)

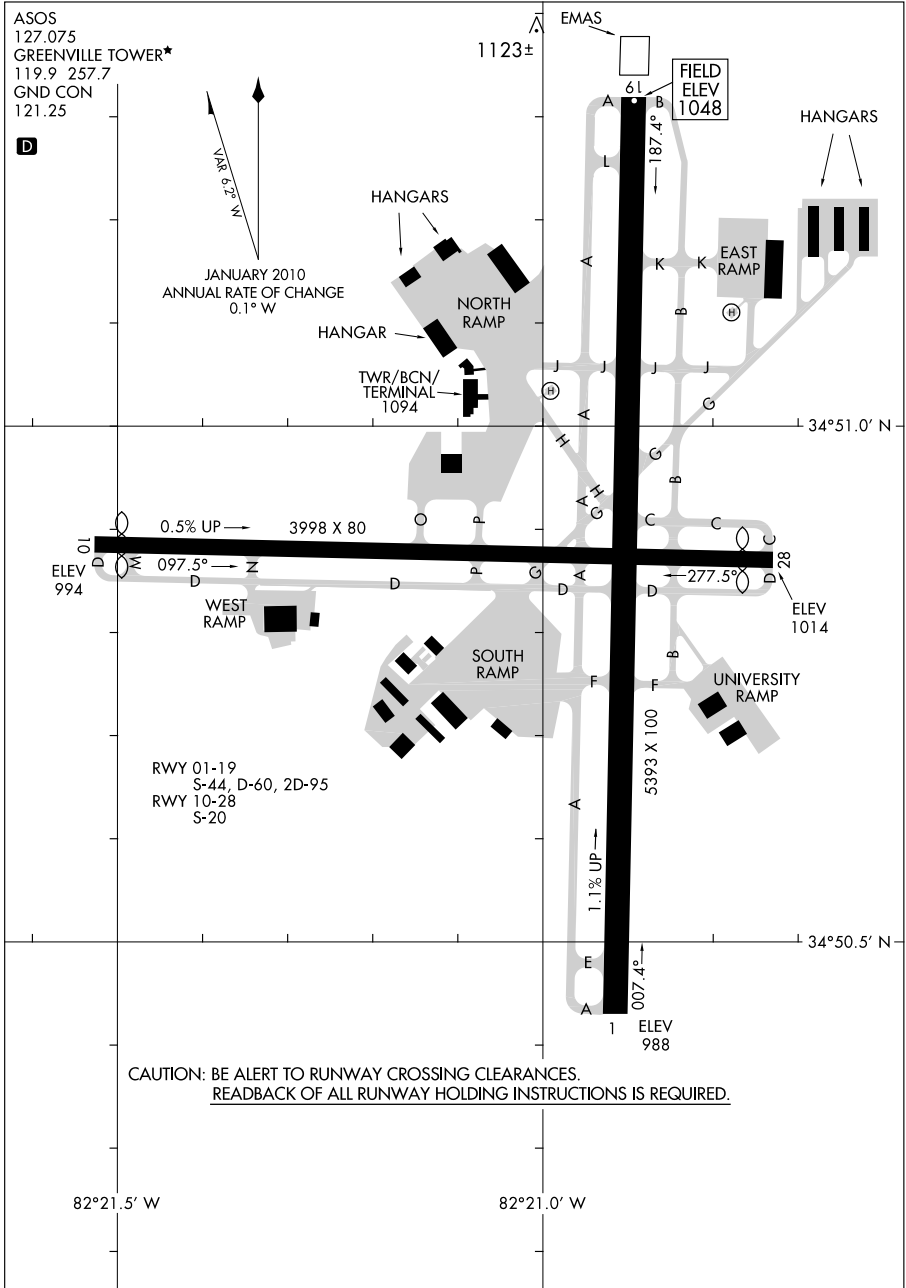
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-180 (FAA)

GREENVILLE DOWNTOWN (GMU)  
GREENVILLE, SOUTH CAROLINA



# AIRPORT DIAGRAM

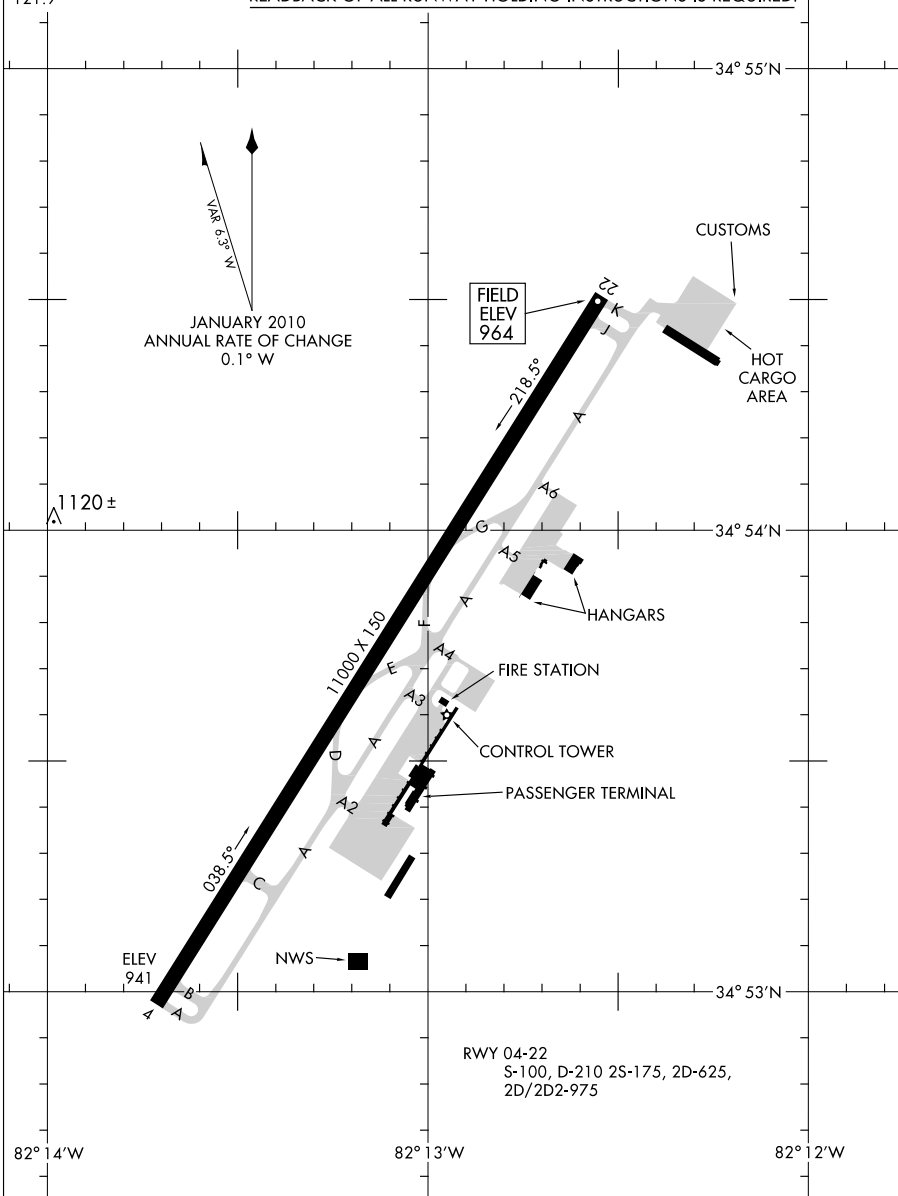
10210

GREENVILLE, SOUTH CAROLINA  
GREENVILLE DOWNTOWN (GMU)

SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)  
AL-5124 (FAA)  
GREER, SOUTH CAROLINAATIS 134.25  
GREER TOWER ★  
120.1 257.8  
GND CON  
121.9CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

## AIRPORT DIAGRAM

GREER, SOUTH CAROLINA  
GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)

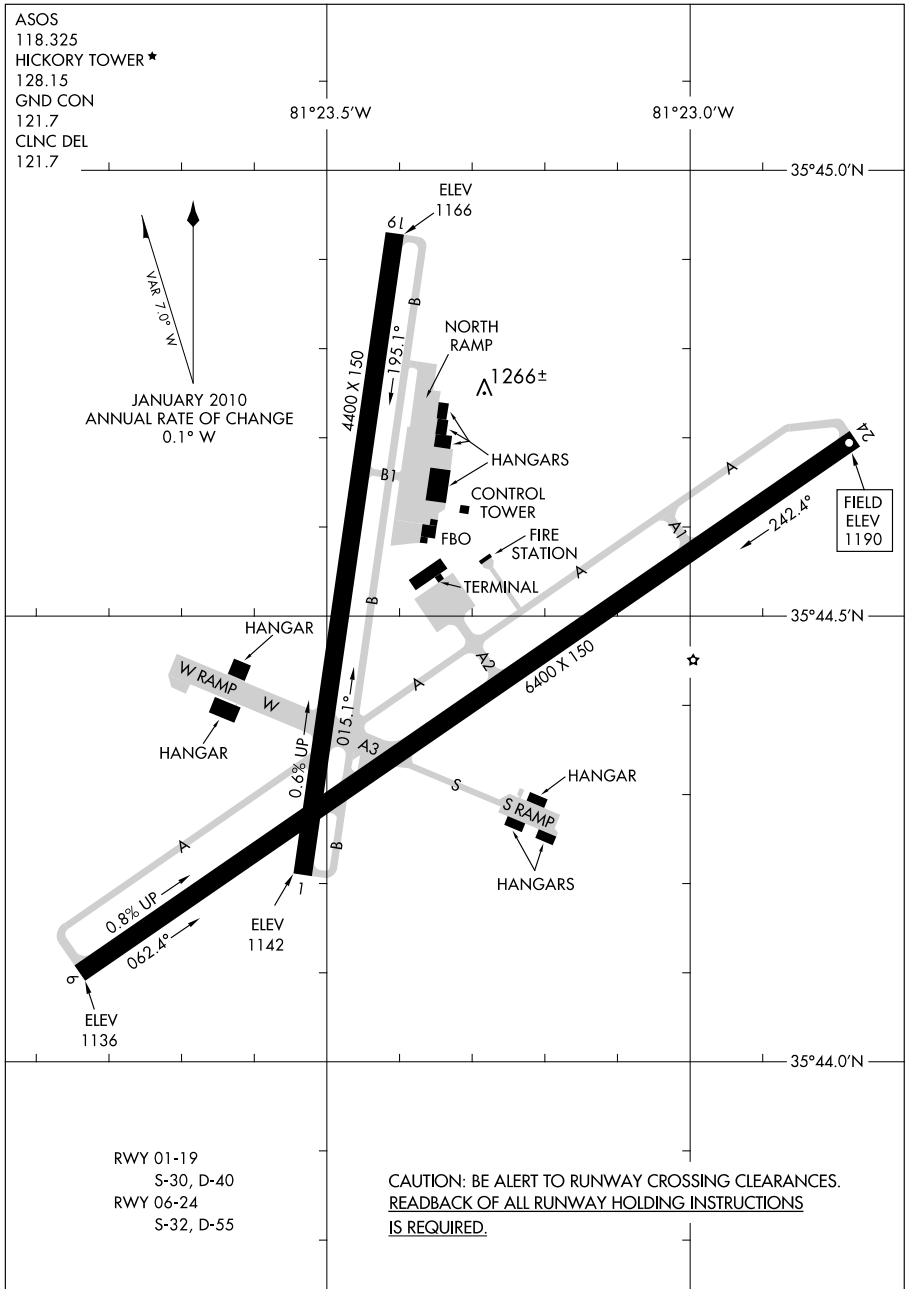
10210

SE. 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

AL-706 (FAA)

HICKORY RGNL (HKY)  
HICKORY, NORTH CAROLINA



# AIRPORT DIAGRAM

HICKORY, NORTH CAROLINA  
HICKORY RGNL (HKY)

SE. 23 SEP 2010 to 18 NOV 2010

10266

## AIRPORT DIAGRAM

AL-5606 (FAA)

HOLLYWOOD /NORTH PERRY (HWO)

HOLLYWOOD, FLORIDA

ATIS

135.475

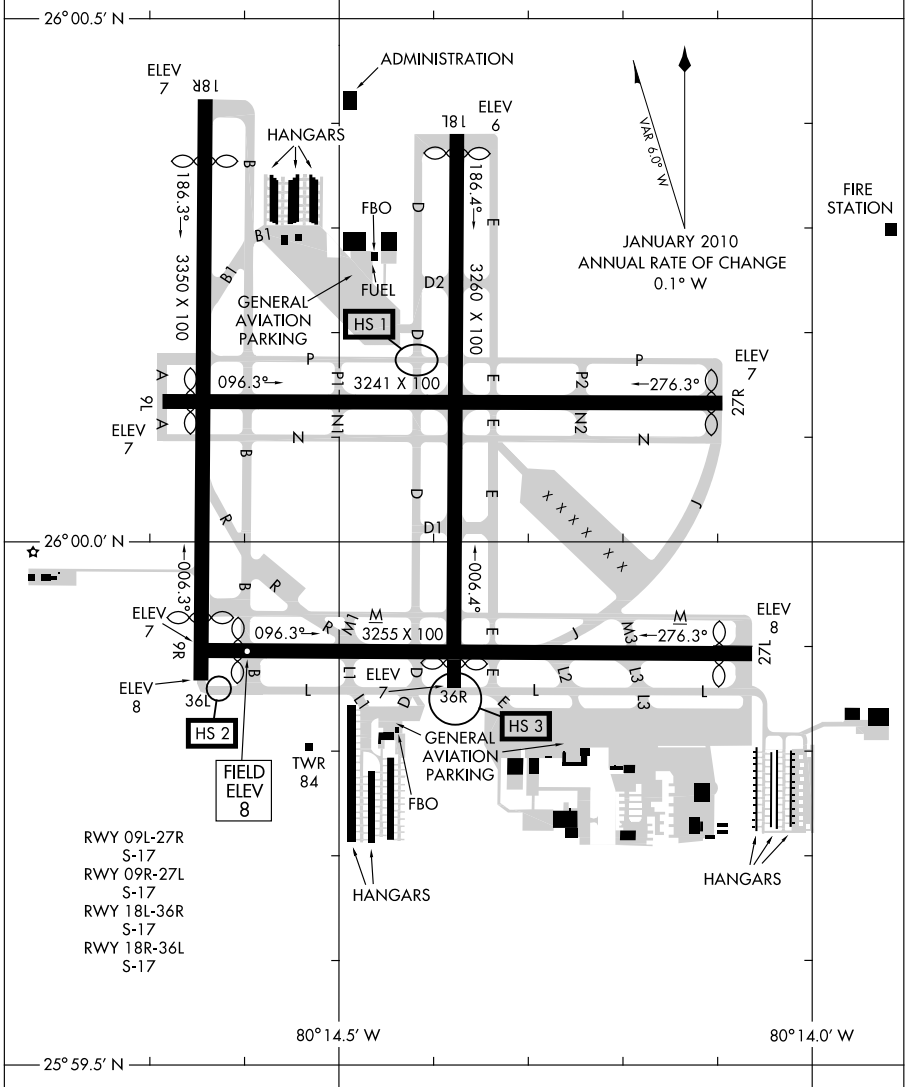
NORTH PERRY TOWER★

132.1 254.3

GND CON

120.45 254.3

CAUTION: BE ALERT TO RUNWAY  
CROSSING CLEARANCES.  
READBCK OF ALL RUNWAY HOLDING  
INSTRUCTIONS IS REQUIRED.



## AIRPORT DIAGRAM

HOLLYWOOD, FLORIDA

HOLLYWOOD /NORTH PERRY (HWO)

10266

SE. 23 SEP 2010 to 18 NOV 2010

08241

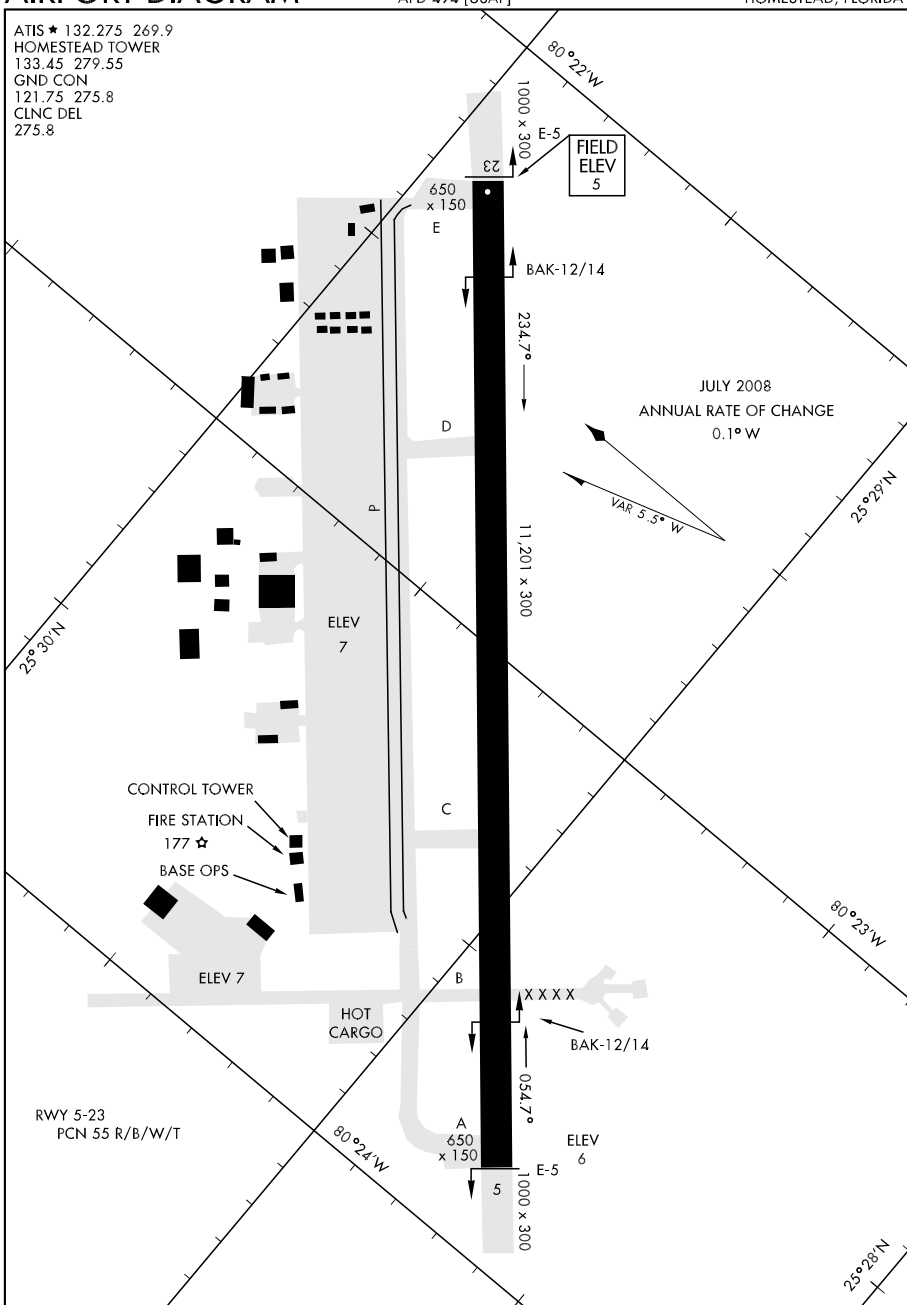
# AIRPORT DIAGRAM

HOMESTEAD ARB (KHST)

HOMESTEAD, FLORIDA

AFD-494 [USAF]

ATIS ★ 132.275 269.9  
HOMESTEAD TOWER  
133.45 279.55  
GND CON  
121.75 275.8  
CLNC DEL  
275.8



# AIRPORT DIAGRAM

HOMESTEAD, FLORIDA

HOMESTEAD ARB (KHST)

SE. 23 SEP 2010 to 18 NOV 2010



09351

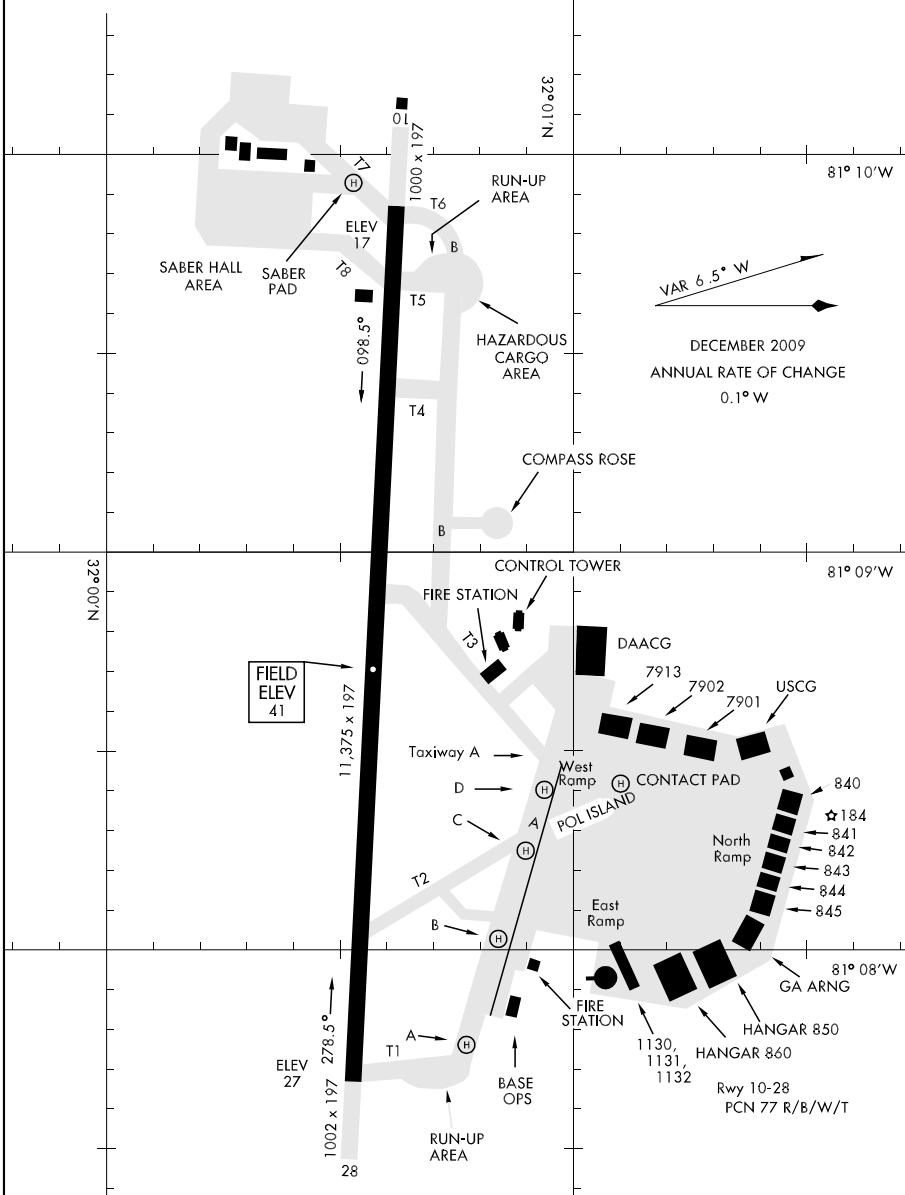
# AIRPORT DIAGRAM

AFD-381 [USA]

HUNTER AAF (KSVN)

SAVANNAH, GEORGIA

ATIS 127.525 323.125  
HUNTER TOWER ★  
124.975 279.575  
GND CON  
121.8 291.675



# AIRPORT DIAGRAM

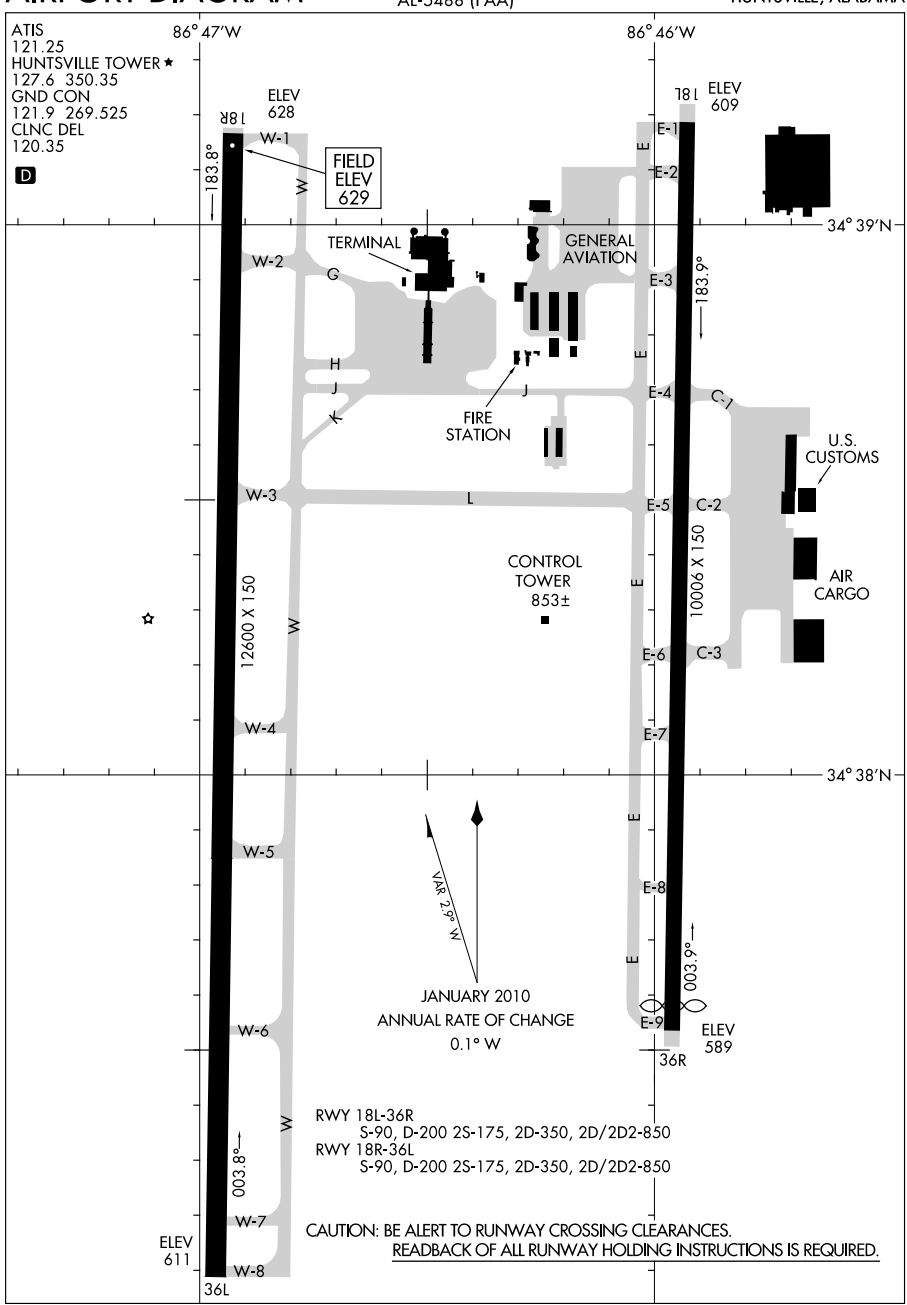
SAVANNAH, GEORGIA

HUNTER AAF (KSVN)

10210

# AIRPORT DIAGRAM

HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)  
AL-5488 (FAA) HUNTSVILLE, ALABAMA



# AIRPORT DIAGRAM

10210

HUNTSVILLE, ALABAMA  
HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)

SE. 23 SEP 2010 to 18 NOV 2010

09015

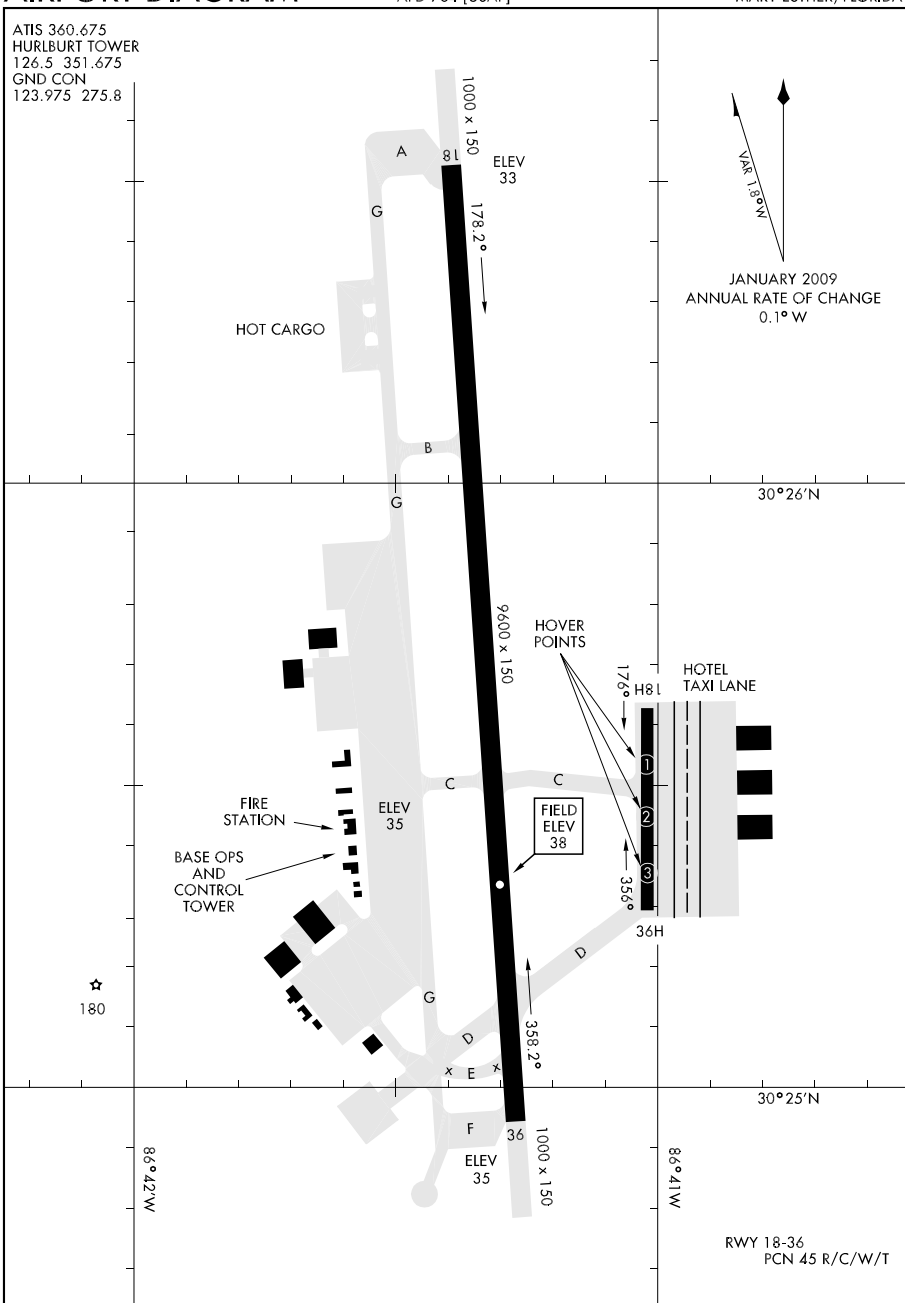
# AIRPORT DIAGRAM

AFD-734 [USAF]

HURLBURT FLD (KHRT)

MARY ESTHER, FLORIDA

ATIS 360.675  
HURLBURT TOWER  
126.5 351.675  
GND CON  
123.975 275.8



# AIRPORT DIAGRAM

MARY ESTHER, FLORIDA

HURLBURT FLD (KHRT)

10210

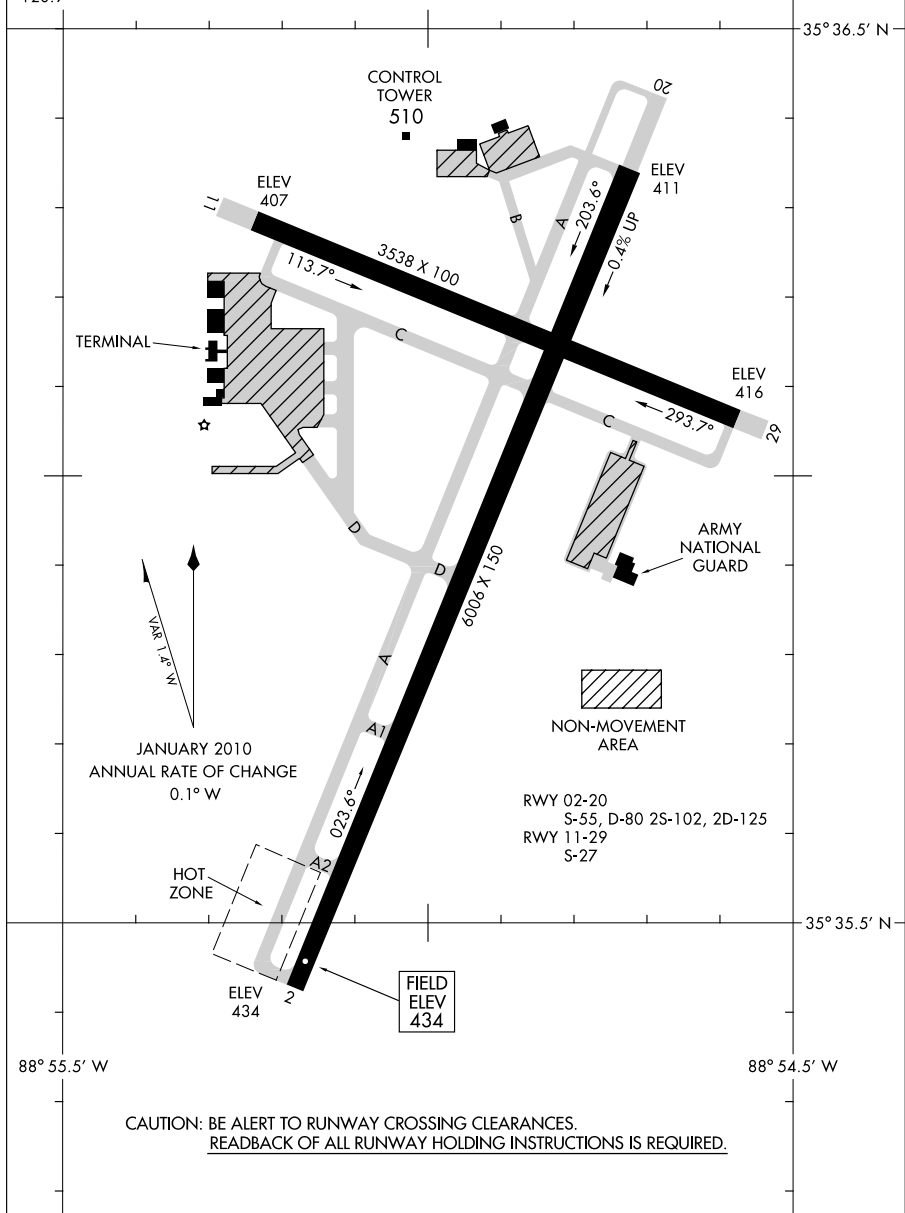
## AIRPORT DIAGRAM

AL-5062 (FAA)

JACKSON/McKELLAR-SIPES RGNL (MKL)

JACKSON, TENNESSEE

JACKSON TOWER ★  
 127.15 249.95  
 GND CON  
 120.9



## AIRPORT DIAGRAM

10210

JACKSON, TENNESSEE  
 JACKSON/McKELLAR-SIPES RGNL (MKL)

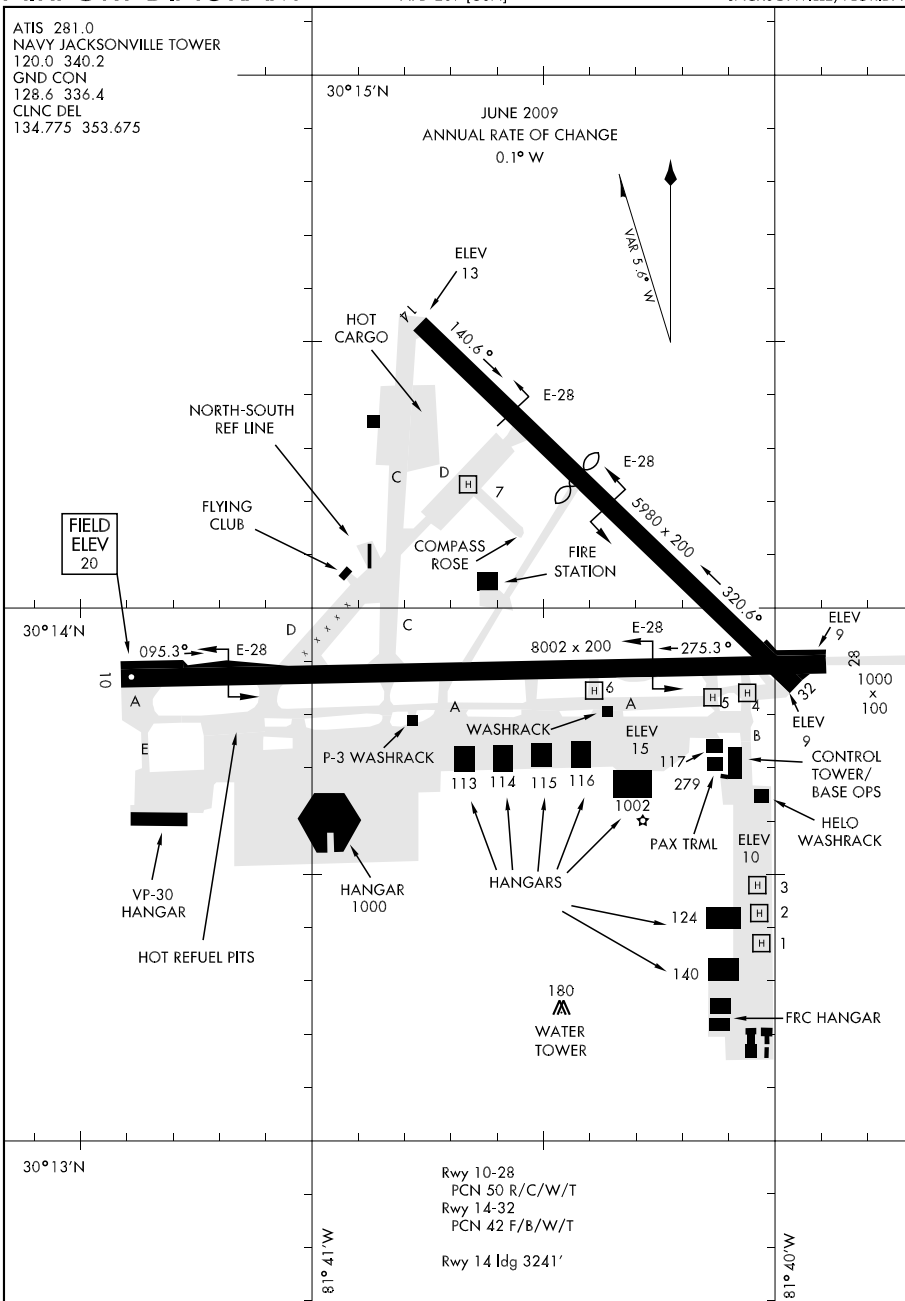
SE. 23 SEP 2010 to 18 NOV 2010

## AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA

AFD-209 [USN]

ATIS 281.0  
NAVY JACKSONVILLE TOWER  
120.0 340.2  
GND CON  
128.6 336.4  
CLNC DEL  
134.775 353.675



## AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA  
JACKSONVILLE NAS (KNIP)

SE, 23 SEP 2010 to 18 NOV 2010

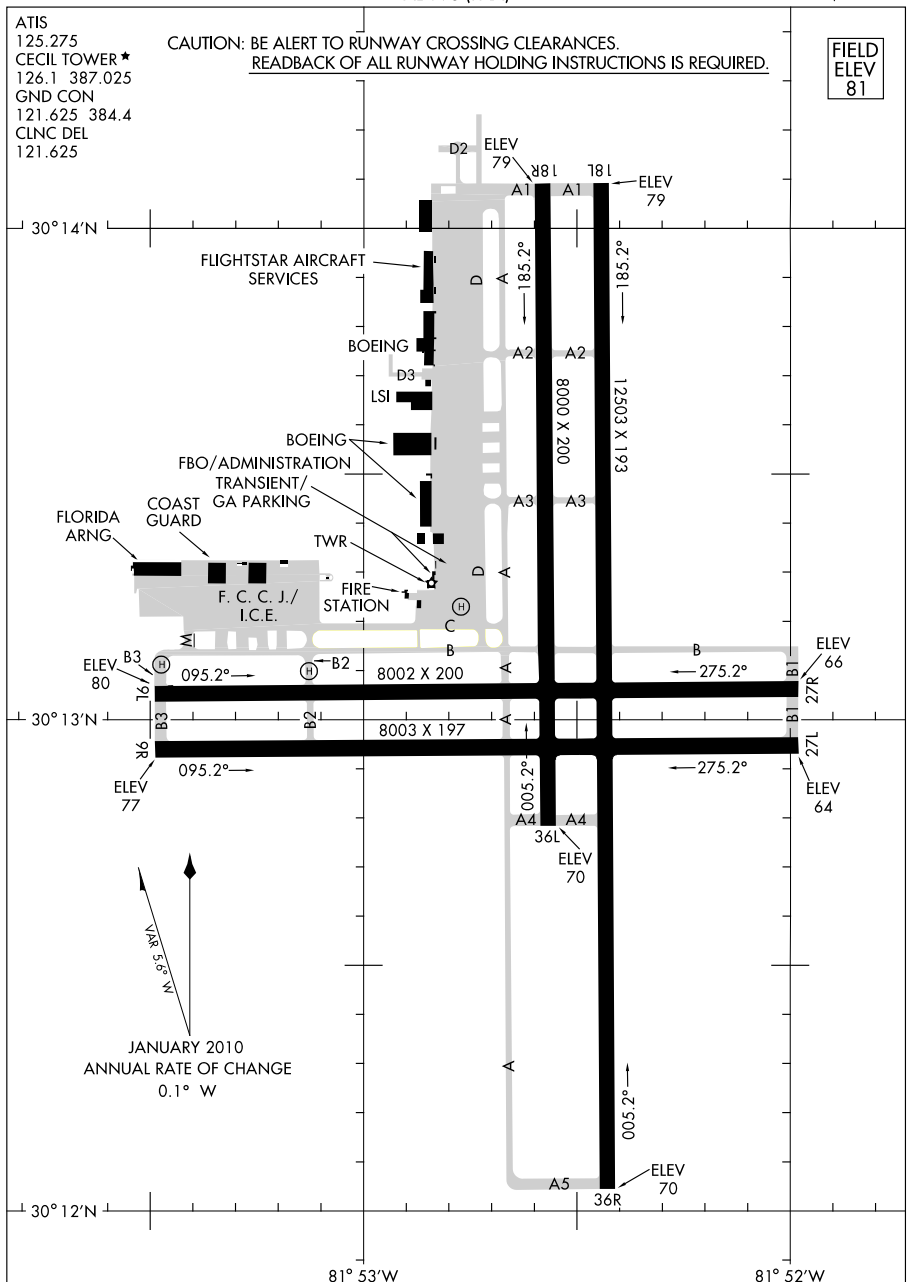
10266

# AIRPORT DIAGRAM

AL-998 (FAA)

JACKSONVILLE/ CECIL FIELD (VQQ)

JACKSONVILLE, FLORIDA



# AIRPORT DIAGRAM

10266

JACKSONVILLE, FLORIDA

JACKSONVILLE/ CECIL FIELD (VQQ)

SE. 23 SEP 2010 to 18 NOV 2010

10210

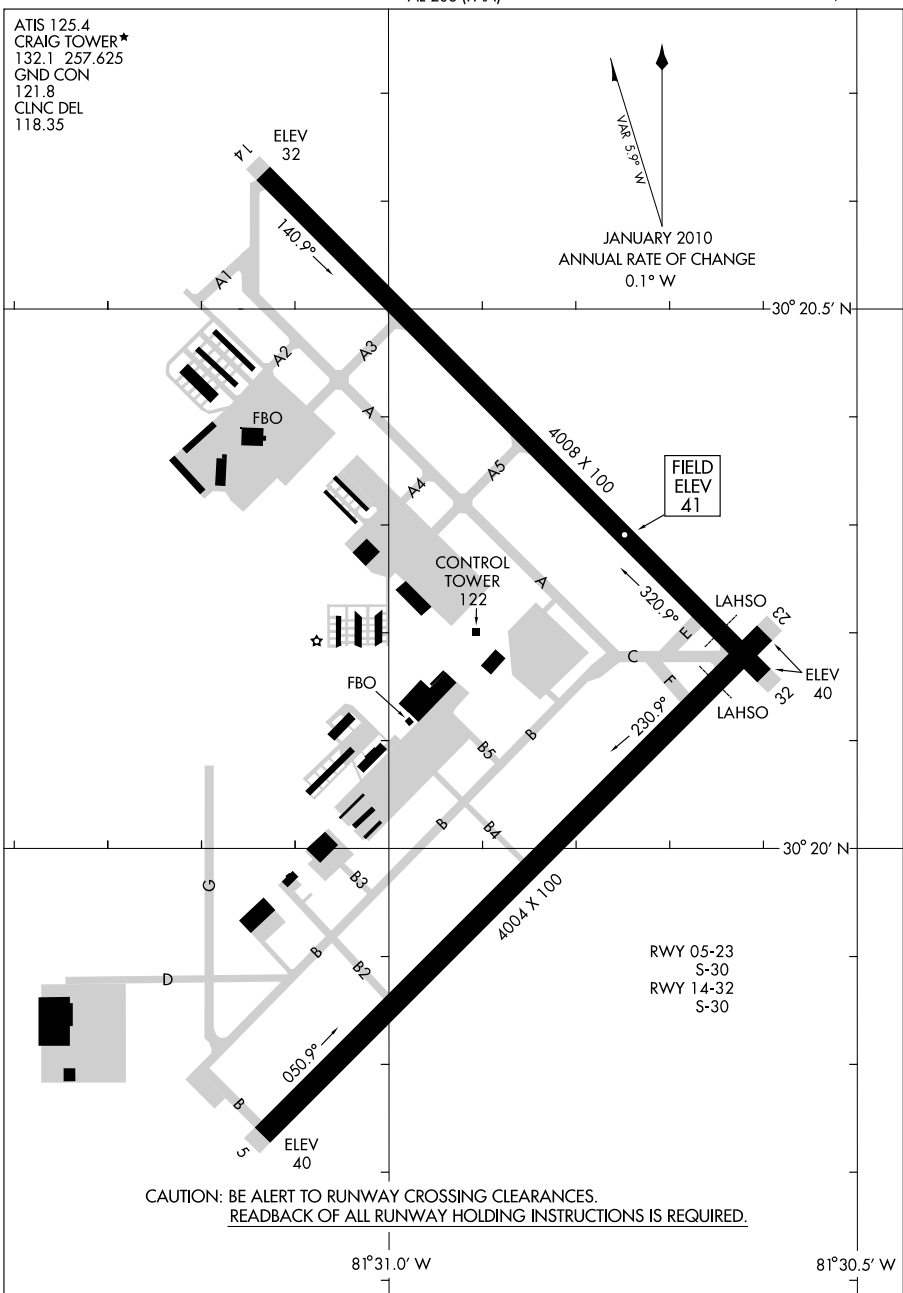
## AIRPORT DIAGRAM

AL-208 (FAA)

JACKSONVILLE/CRAIG MUNI (CRG)

JACKSONVILLE, FLORIDA

ATIS 125.4  
 CRAIG TOWER ★  
 132.1 257.625  
 GND CON  
 121.8  
 CLNC DEL  
 118.35



## AIRPORT DIAGRAM

10210

JACKSONVILLE, FLORIDA  
 JACKSONVILLE/CRAIG MUNI (CRG)

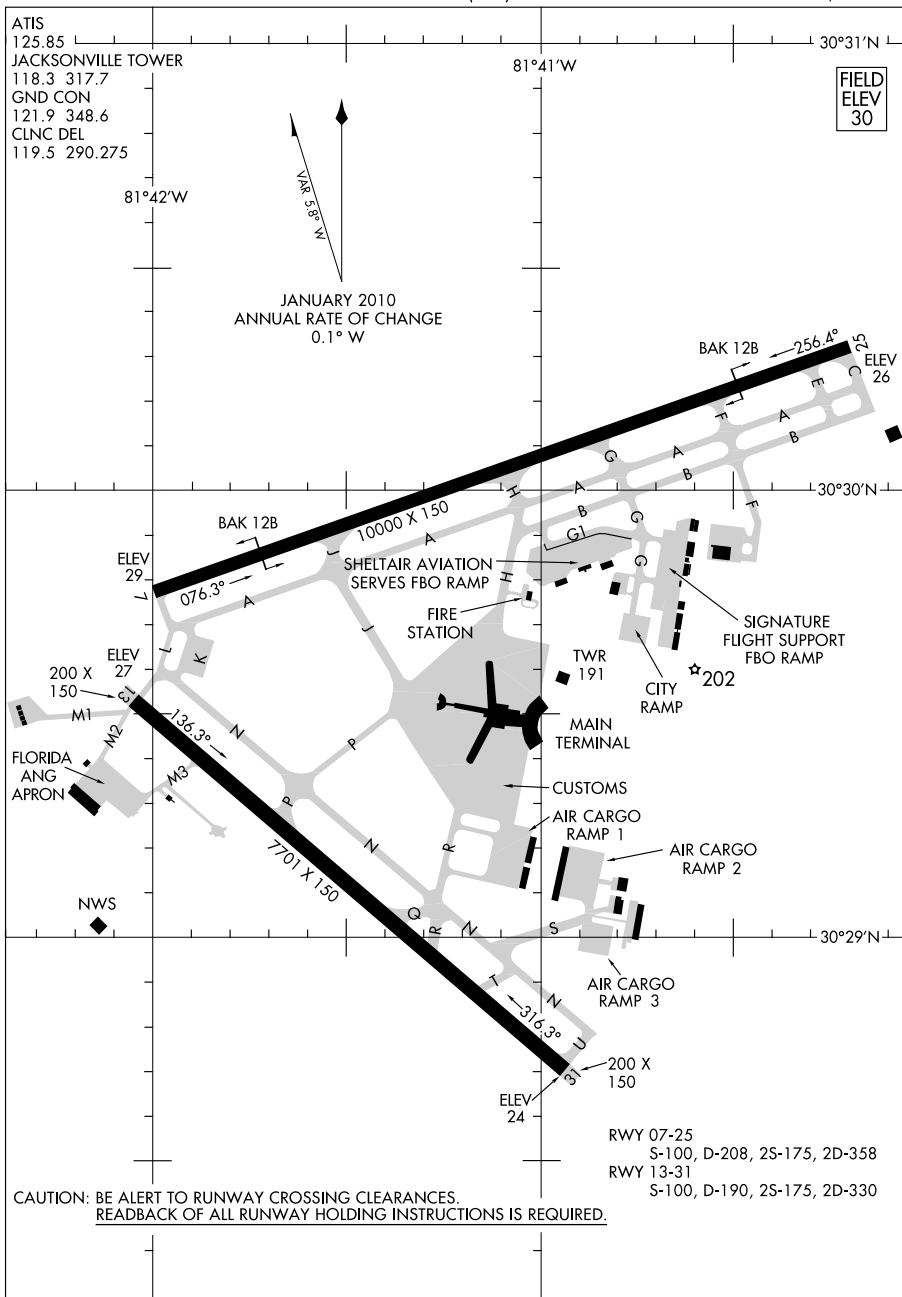
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-5570 (FAA)

JACKSONVILLE INTL (JAX)  
JACKSONVILLE, FLORIDA



# AIRPORT DIAGRAM

10210

JACKSONVILLE, FLORIDA  
JACKSONVILLE INTL (JAX)

SE. 23 SEP 2010 to 18 NOV 2010

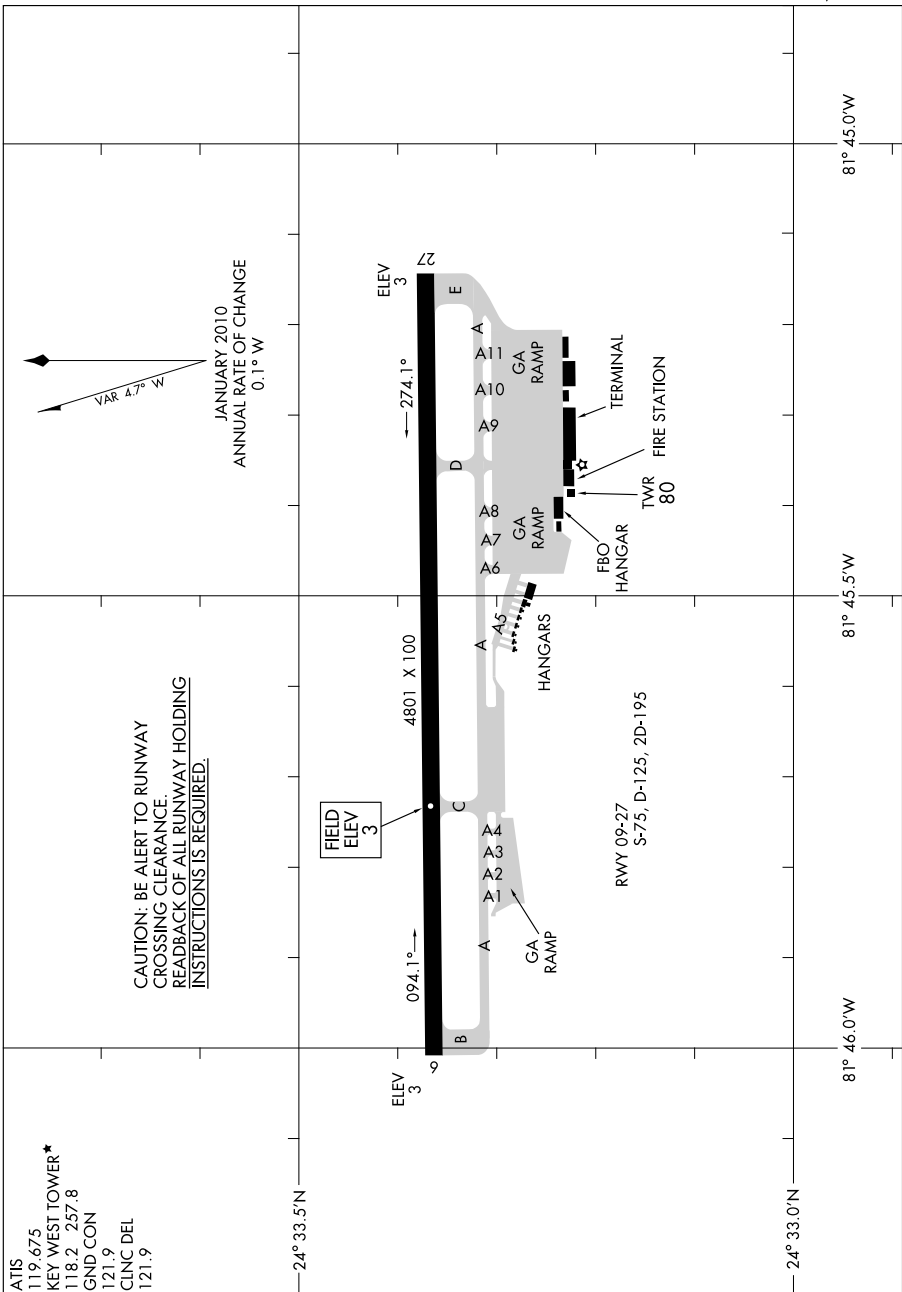


10266

# AIRPORT DIAGRAM

AL-606 (FAA)

KEY WEST INTL (EYW)  
KEY WEST, FLORIDA



# AIRPORT DIAGRAM

10266

KEY WEST, FLORIDA  
KEY WEST INTL (EYW)

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

## AFD-214 [USN]

## KEY WEST, FLORIDA

OCTOBER 2008  
ANNUAL RATE OF CHANGE  
0.1°W



RWY 7-25  
PCN 59 R/B/W/T  
RWY 3-21  
PCN 60 F/A/W/T  
RWY 13-31  
PCN 51 F/A/W/T

## AIRPORT DIAGRAM

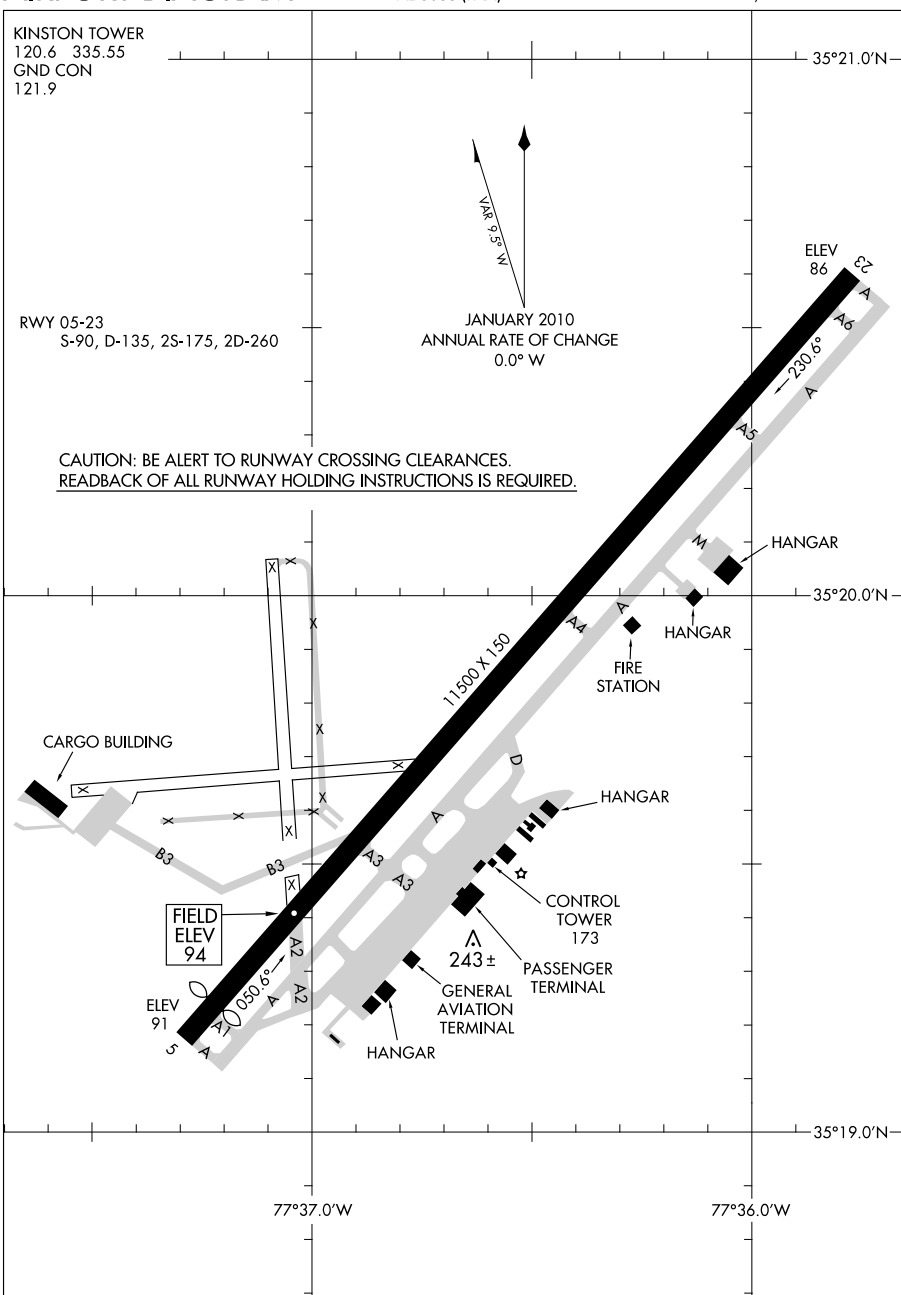
KEY WEST, FLORIDA

KEY WEST NAS (BOCA CHICA FLD) (KNQX)

SE. 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)  
AL-5038 (FAA) KINSTON, NORTH CAROLINA



# AIRPORT DIAGRAM

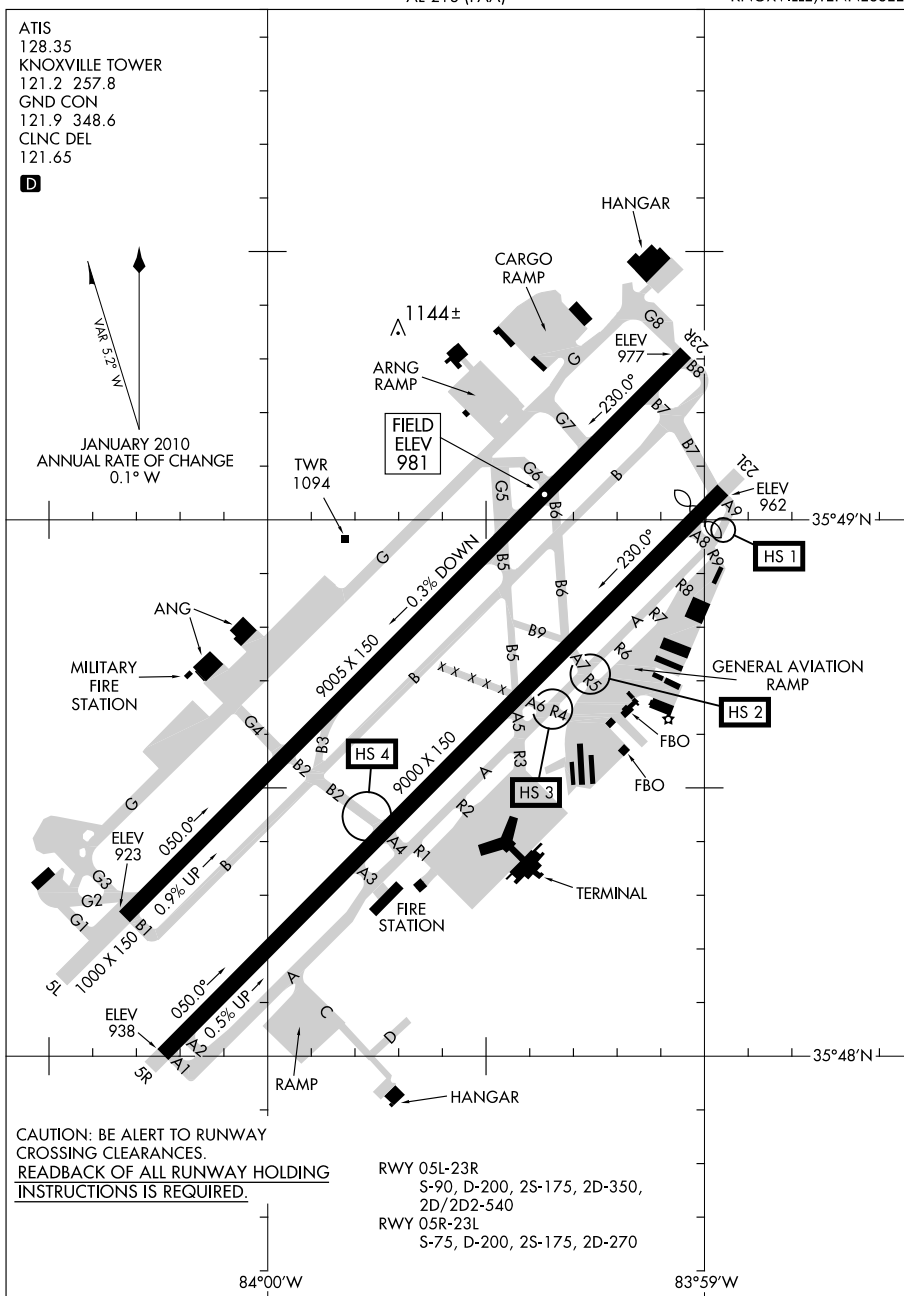
KINSTON, NORTH CAROLINA  
KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)

## AIRPORT DIAGRAM

AL-218 (FAA)

KNOXVILLE / MCGHEE-TYSON (TYS)  
KNOXVILLE, TENNESSEE

ATIS  
 128.35  
 KNOXVILLE TOWER  
 121.2 257.8  
 GND CON  
 121.9 348.6  
 CLNC DEL  
 121.65



## AIRPORT DIAGRAM

10266

KNOXVILLE, TENNESSEE  
KNOXVILLE / MCGHEE-TYSON (TYS)

SE, 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

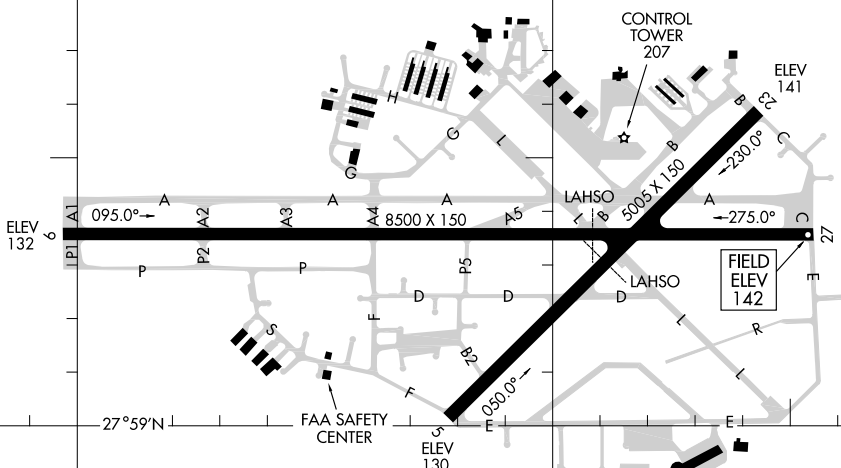
LAKELAND LINDER RGNL (LAL)  
LAKELAND, FLORIDA

ATIS 118.025  
LAKELAND TOWER\*  
124.5  
GND CON  
121.4

AL-939 (FAA)

JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.1° W

28°00'N

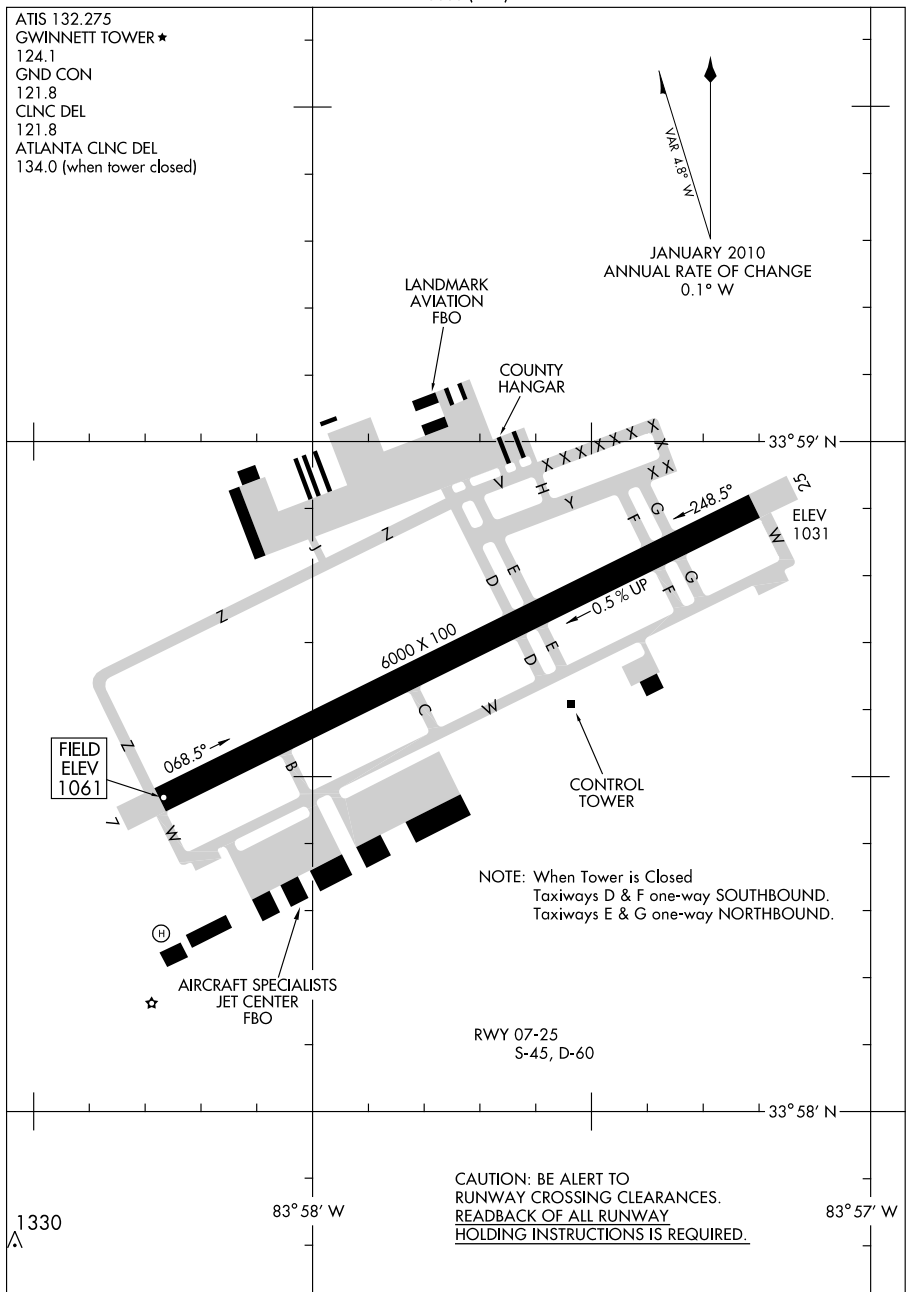


10210

# AIRPORT DIAGRAM

LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)  
AL-5385 (FAA) LAWRENCEVILLE, GEORGIA

ATIS 132.275  
GWINNETT TOWER ★  
124.1  
GND CON  
121.8  
CLNC DEL  
121.8  
ATLANTA CLNC DEL  
134.0 (when tower closed)



# AIRPORT DIAGRAM

10210

LAWRENCEVILLE, GEORGIA  
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)

SE. 23 SEP 2010 to 18 NOV 2010

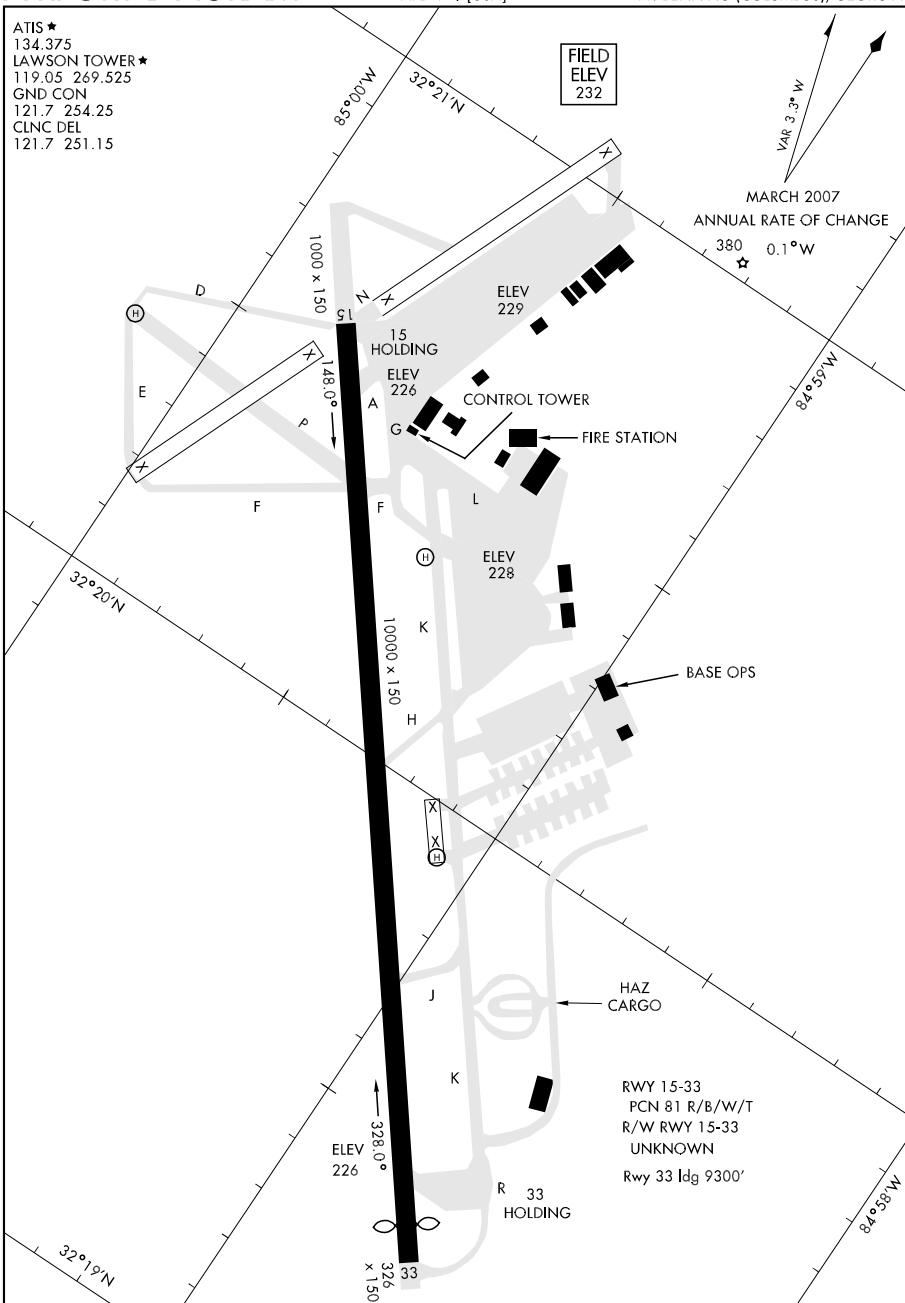
07074

# AIRPORT DIAGRAM

AFD-146 [USA]

LAWSON AAF (KLSF)  
FT. BENNING (COLUMBUS), GEORGIA

ATIS ★  
134.375  
LAWSON TOWER ★  
119.05 269.525  
GND CON  
121.7 254.25  
CLNC DEL  
121.7 251.15



# AIRPORT DIAGRAM

FT. BENNING (COLUMBUS), GEORGIA  
LAWSON AAF (KLSF)

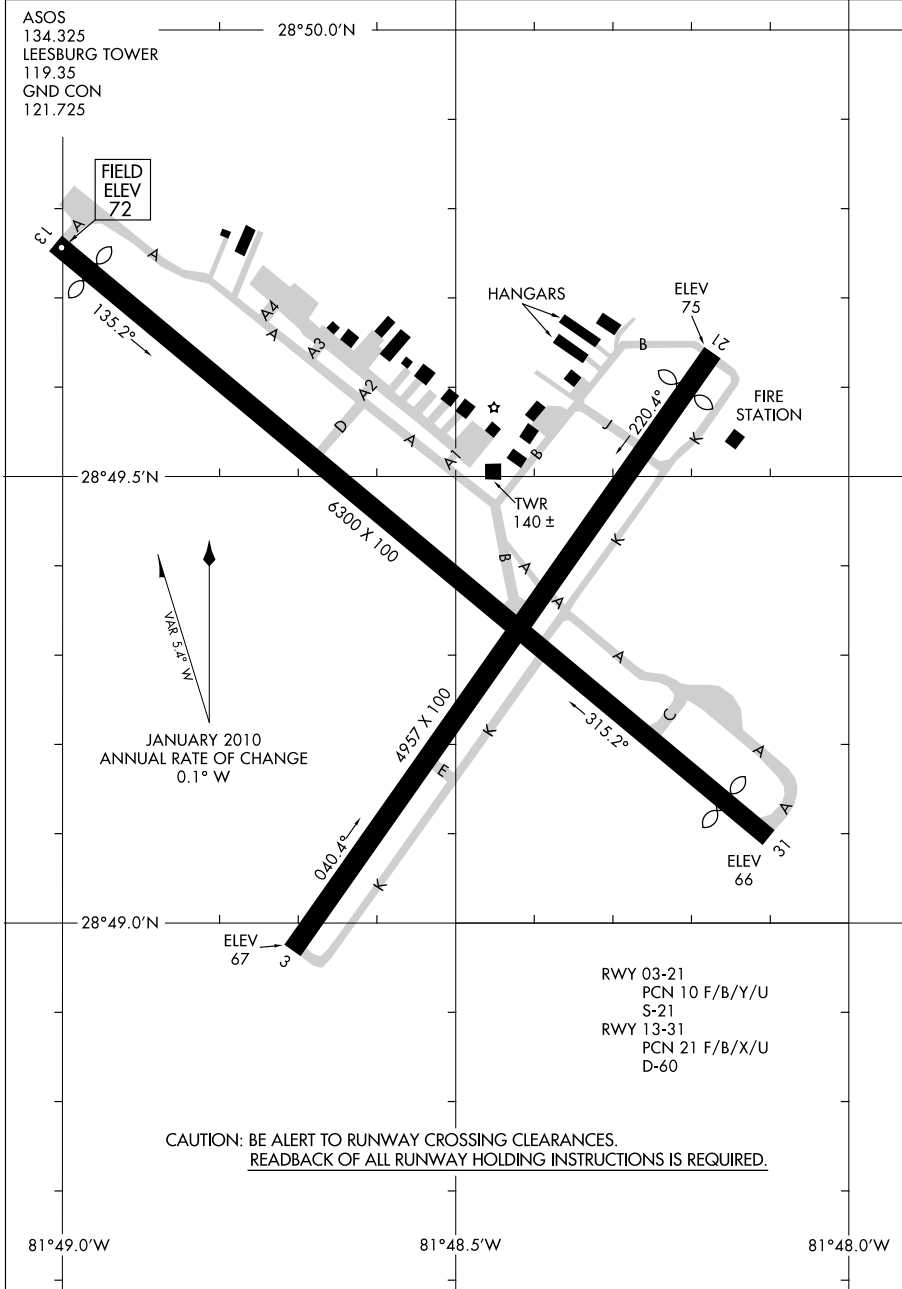
SE. 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

AL-6676 (FAA)

LEESBURG INTL (LEE)  
LEESBURG, FLORIDA



# AIRPORT DIAGRAM

10266

LEESBURG, FLORIDA  
LEESBURG INTL (LEE)

SE. 23 SEP 2010 to 18 NOV 2010



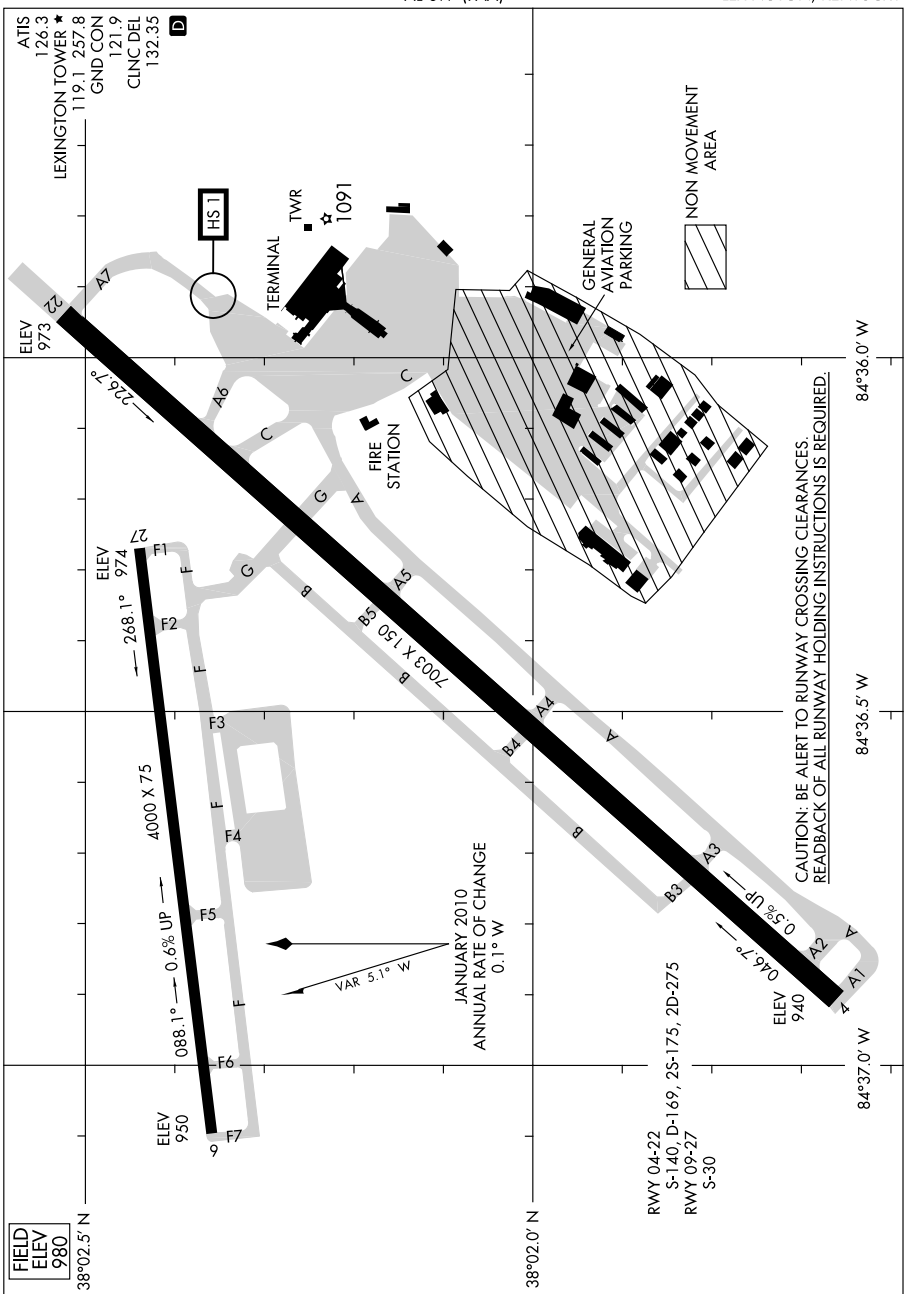
10266

## AIRPORT DIAGRAM

AL-697 (FAA)

LEXINGTON /BLUE GRASS (LEX)

LEXINGTON, KENTUCKY



## AIRPORT DIAGRAM

10266

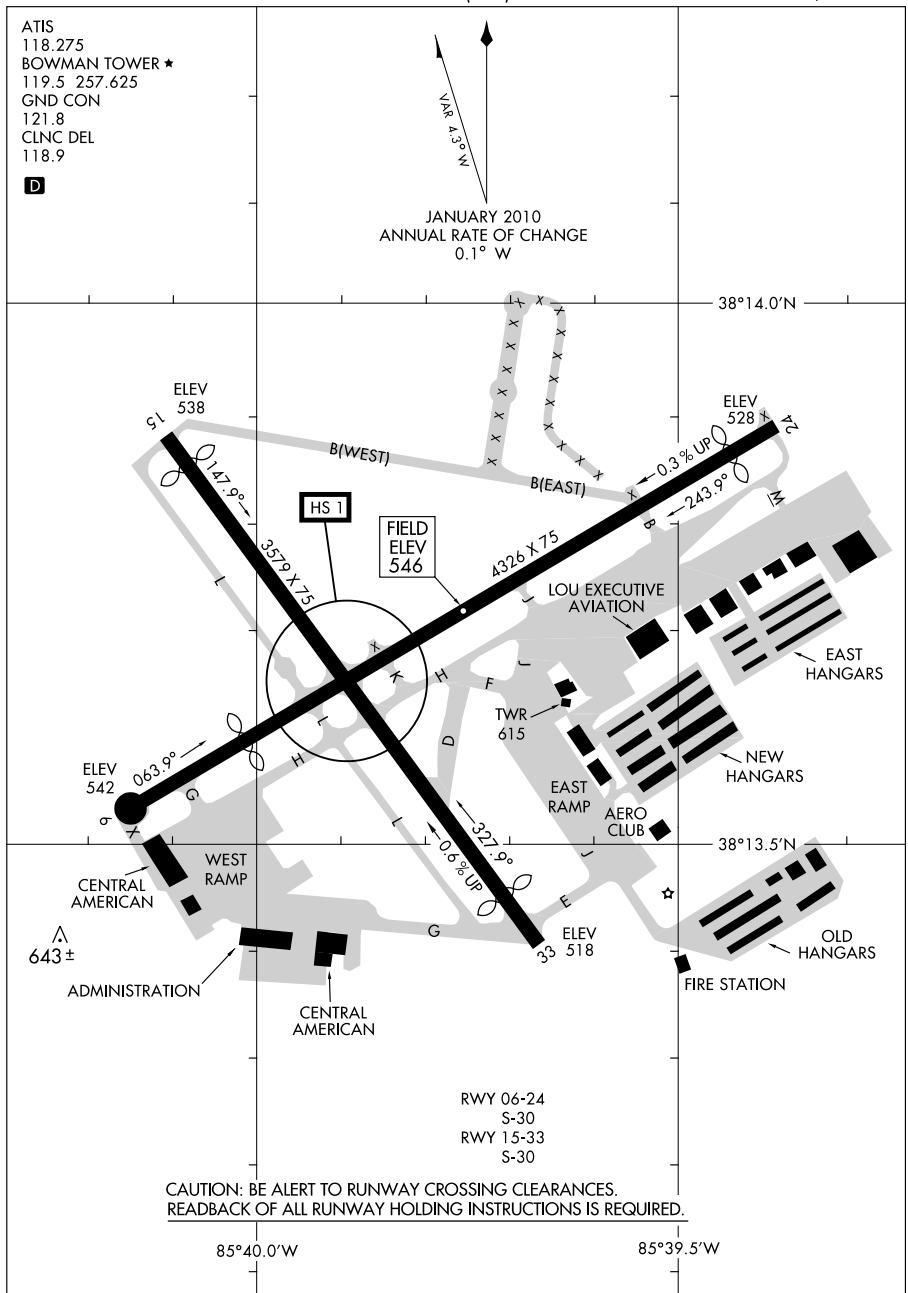
LEXINGTON, KENTUCKY  
LEXINGTON /BLUE GRASS (LEX)

SE. 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

LOUISVILLE/BOWMAN FIELD (LOU)

LOUISVILLE, KENTUCKY



# AIRPORT DIAGRAM

LOUISVILLE, KENTUCKY  
LOUISVILLE/BOWMAN FIELD (LOU)

10210

# AIRPORT DIAGRAM

AL-239 (FAA)

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

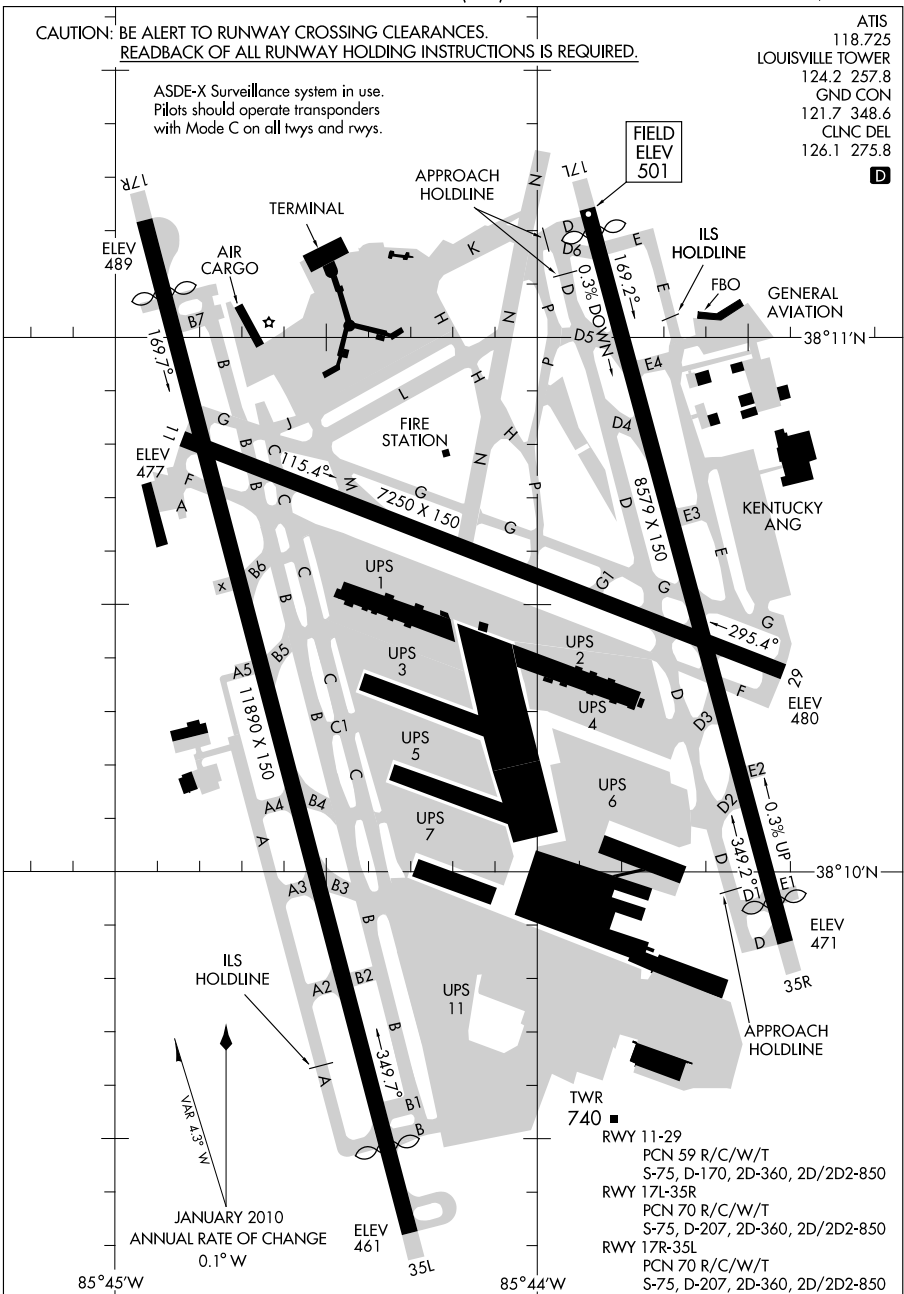
LOUISVILLE, KENTUCKY

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
REDBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ASDE-X Surveillance system in use.  
Pilots should operate transponders  
with Mode C on all twys and rwys.

ATIS  
118.725  
LOUISVILLE TOWER  
124.2 257.8  
GND CON  
121.7 348.6  
CLNC DEL  
126.1 275.8

D



# AIRPORT DIAGRAM

10210

LOUISVILLE, KENTUCKY  
LOUISVILLE INTL-STANDIFORD FIELD (SDF)

SE. 23 SEP 2010 to 18 NOV 2010

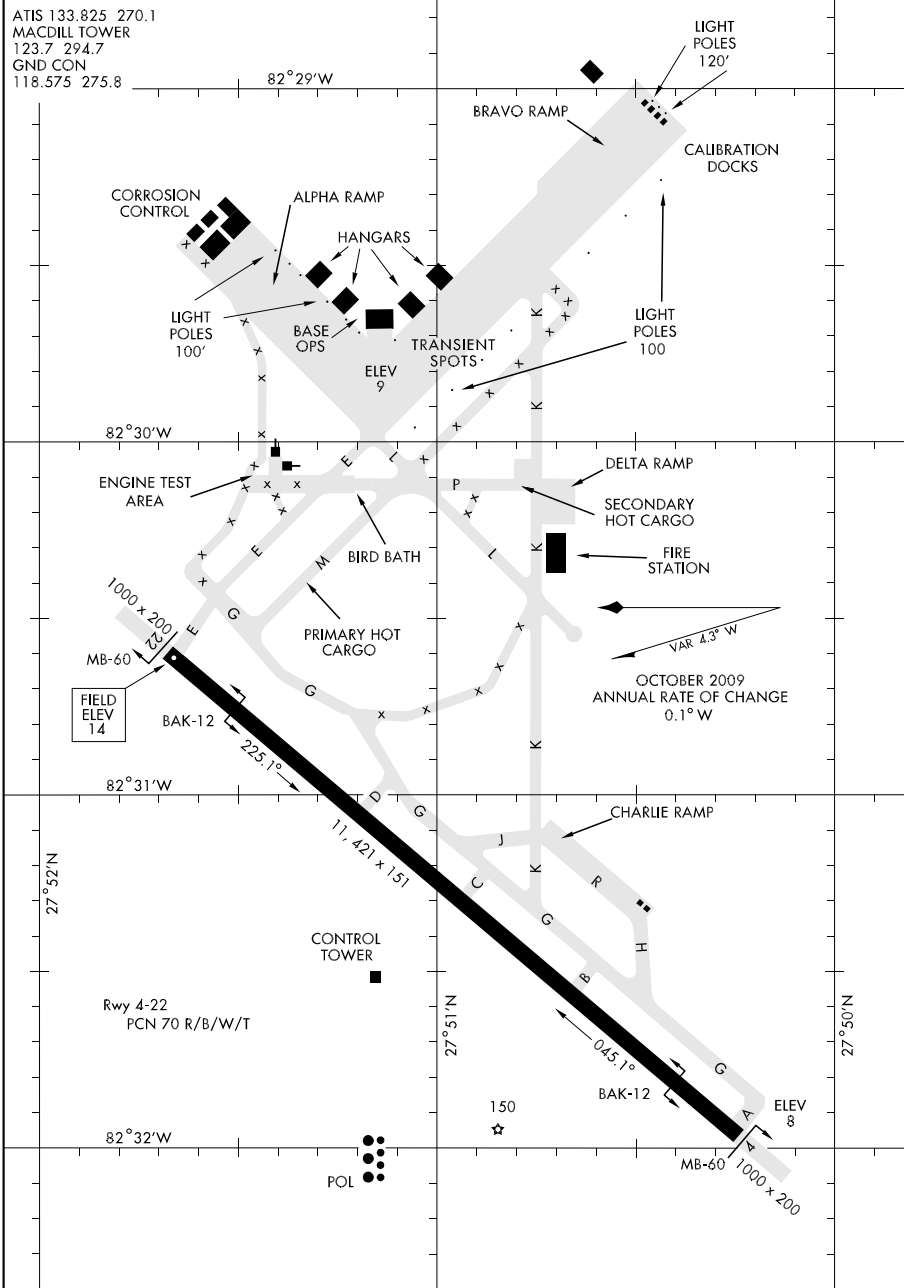
09295

MACDILL AFB (KMCF)

## AIRPORT DIAGRAM

AFD-418 [USAF]

TAMPA, FLORIDA



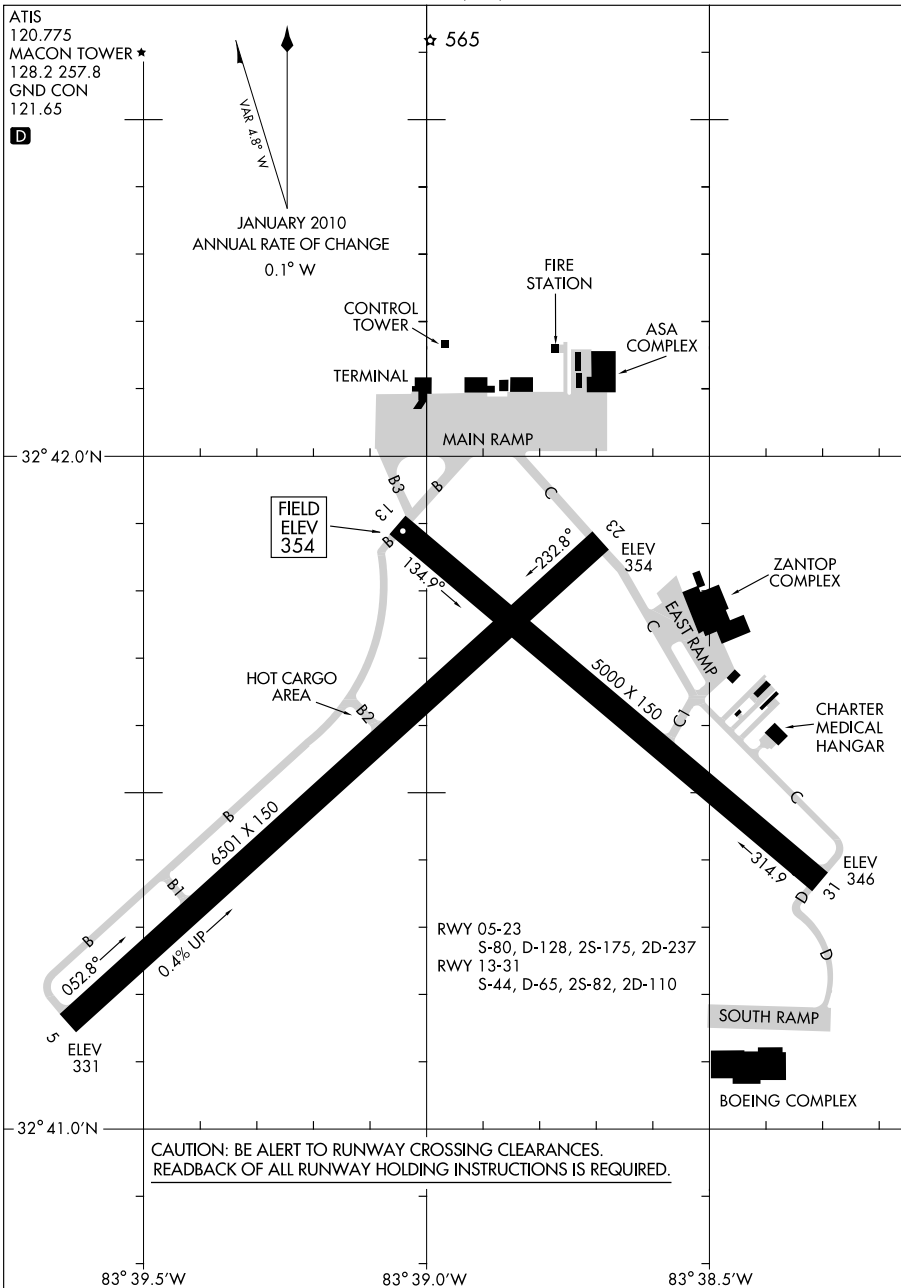
## AIRPORT DIAGRAM

TAMPA, FLORIDA  
MACDILL AFB (KMCF)

SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

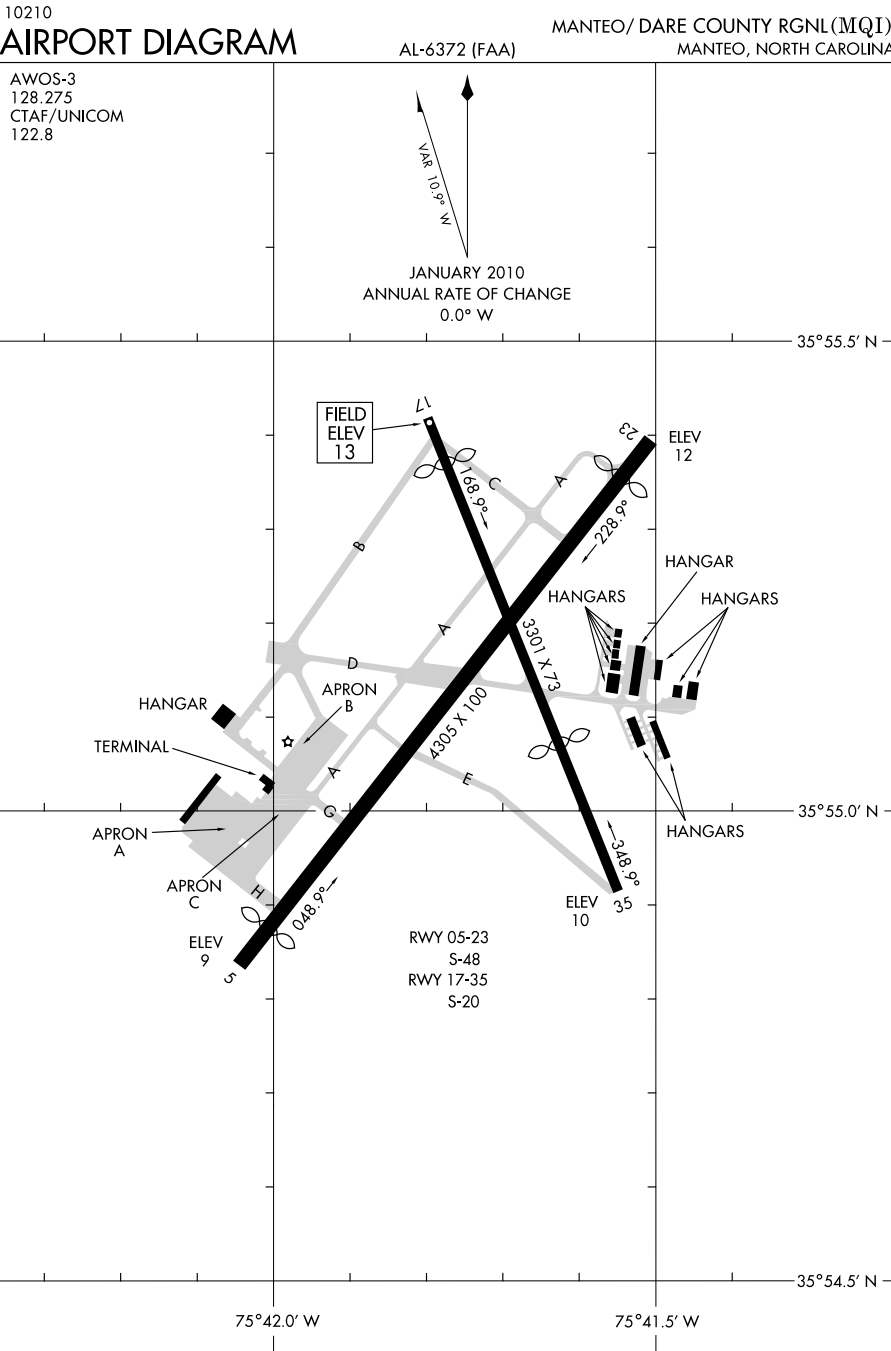
MACON/ MIDDLE GEORGIA RGNL (MCN)  
AL-243 (FAA) MACON, GEORGIA

## AIRPORT DIAGRAM

10210

MACON, GEORGIA  
MACON/ MIDDLE GEORGIA RGNL (MCN)

SE. 23 SEP 2010 to 18 NOV 2010



AIRPORT DIAGRAM

MANTEO, NORTH CAROLINA  
MANTEO/ DARE COUNTY RGNL (MQI)

SE. 23 SEP 2010 to 18 NOV 2010

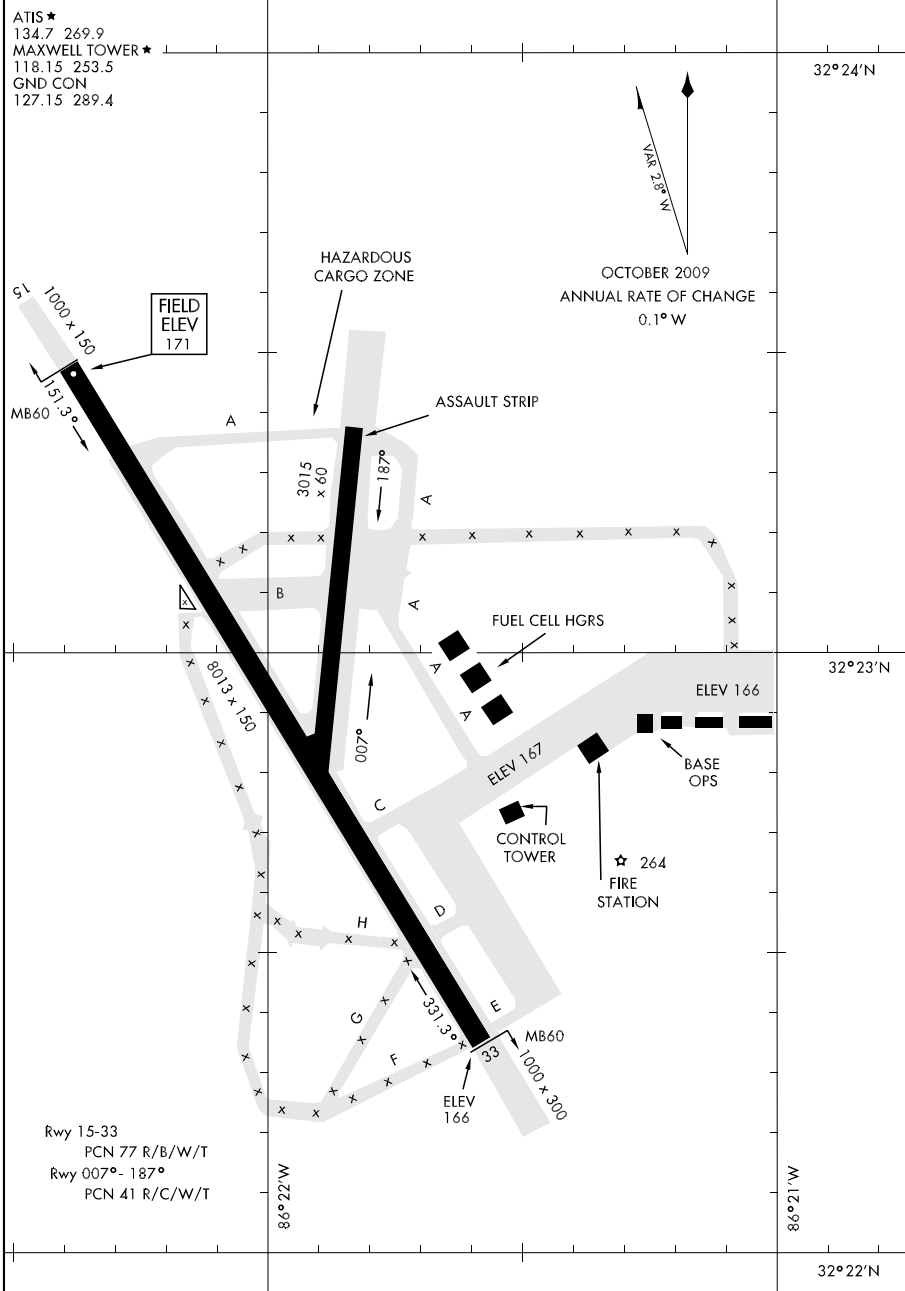
09295

## AIRPORT DIAGRAM

AFD-274 [USAF]

MAXWELL AFB (KMXF)

MONTGOMERY, ALABAMA



## AIRPORT DIAGRAM

MONTGOMERY, ALABAMA

MAXWELL AFB (KMXF)

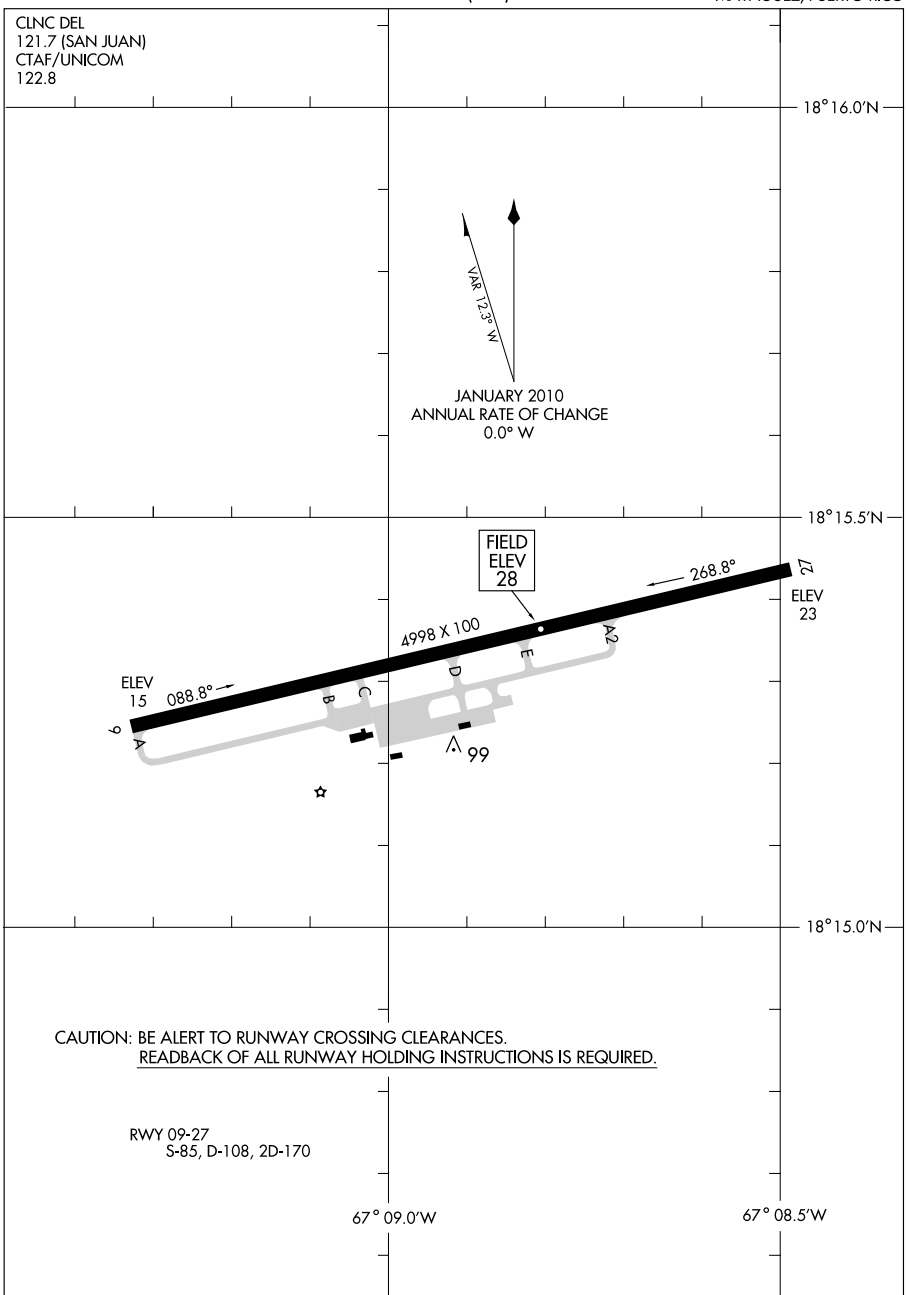
10210

# AIRPORT DIAGRAM

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

AL-5328 (FAA)

MAYAGUEZ, PUERTO RICO



# AIRPORT DIAGRAM

10210

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

MAYAGUEZ, PUERTO RICO

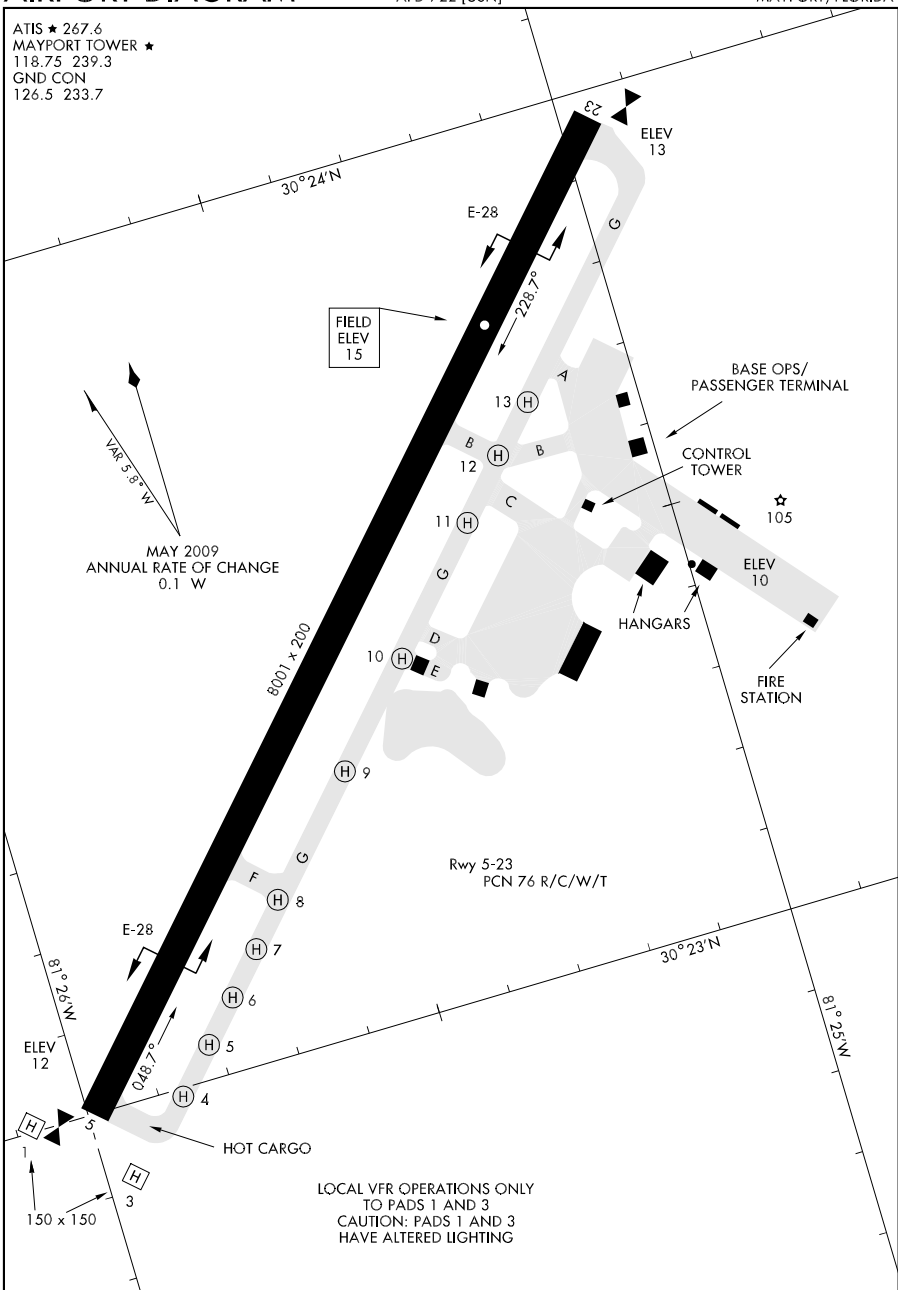
SE. 23 SEP 2010 to 18 NOV 2010



## AIRPORT DIAGRAM

MAYPORT, FLORIDA

ATIS ★ 267.6  
MAYPORT TOWER ★  
118.75 239.3  
GND CON  
126.5 233.7



# AIRPORT DIAGRAM

MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)

SE, 23 SEP 2010 to 18 NOV 2010

10266

## AIRPORT DIAGRAM

AFD-951 [USAF]

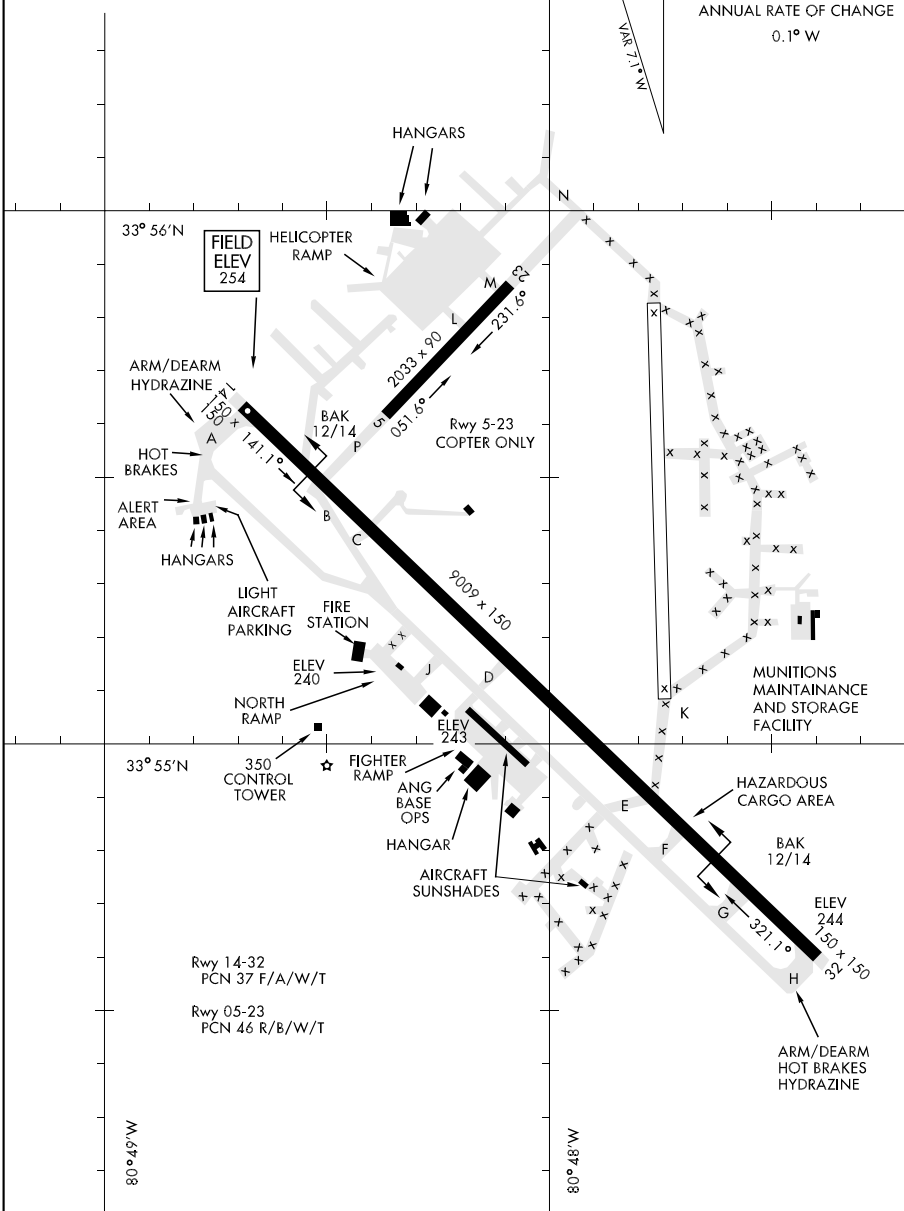
MC ENTIRE JNGB (KMMT)

EASTOVER, SOUTH CAROLINA

MC ENTIRE TOWER ★  
132.4 253.5  
GND CON  
127.625 226.675

SEPTEMBER 2010

ANNUAL RATE OF CHANGE  
0.1° W



## AIRPORT DIAGRAM

EASTOVER, SOUTH CAROLINA

MC ENTIRE JNGB (KMMT)

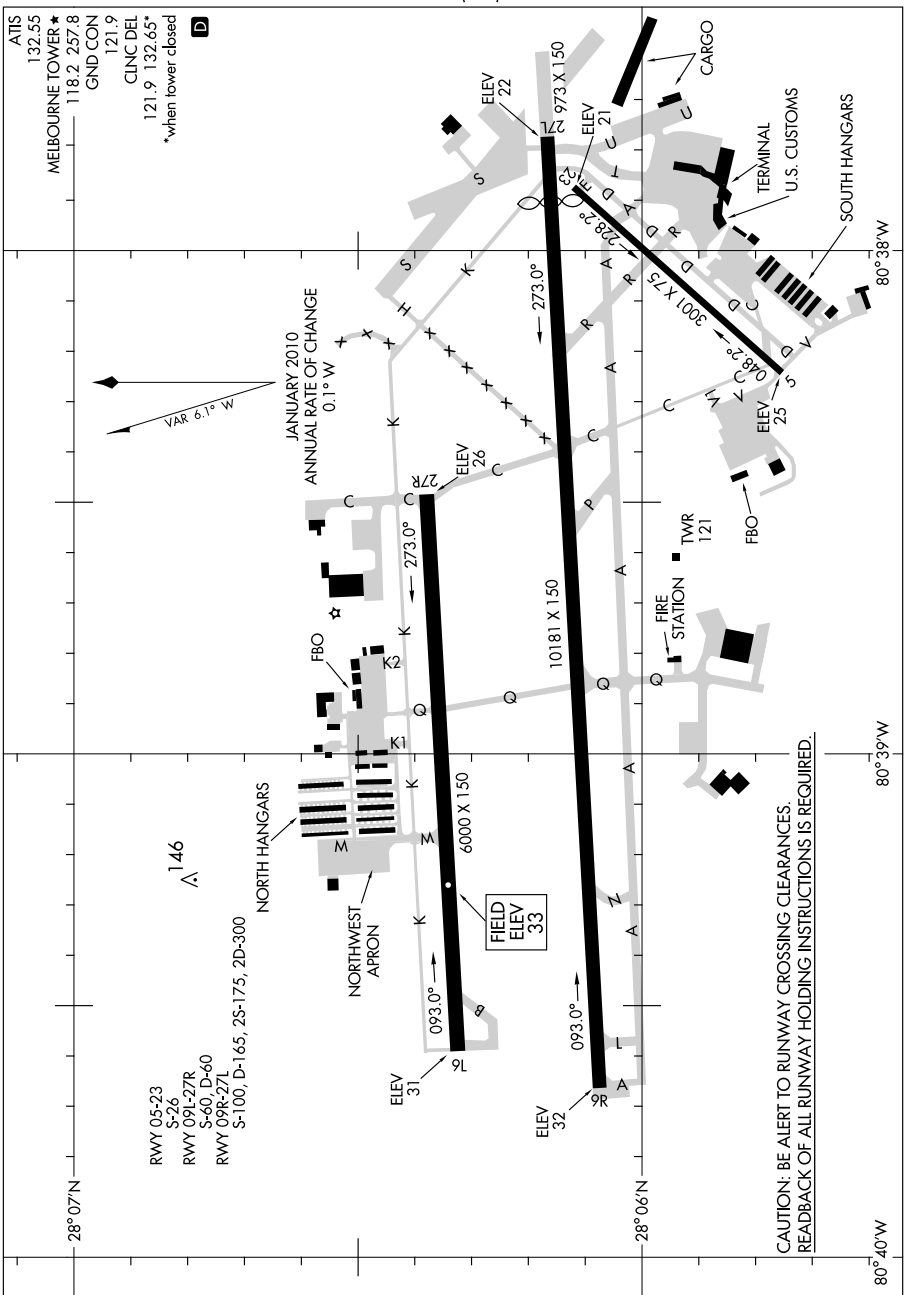
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-252 (FAA)

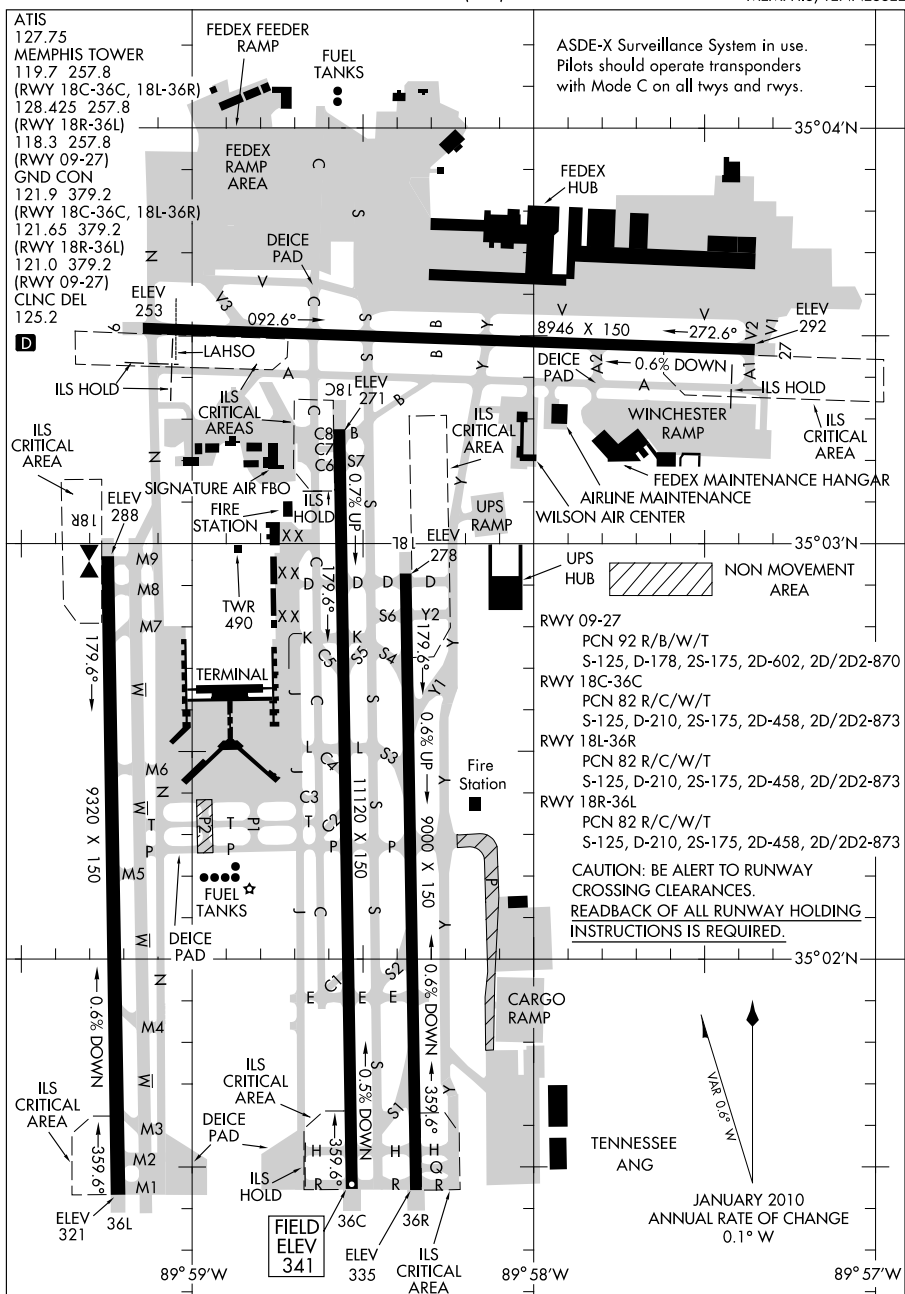
MELBOURNE INTL (MLB)  
MELBOURNE, FLORIDA



# AIRPORT DIAGRAM

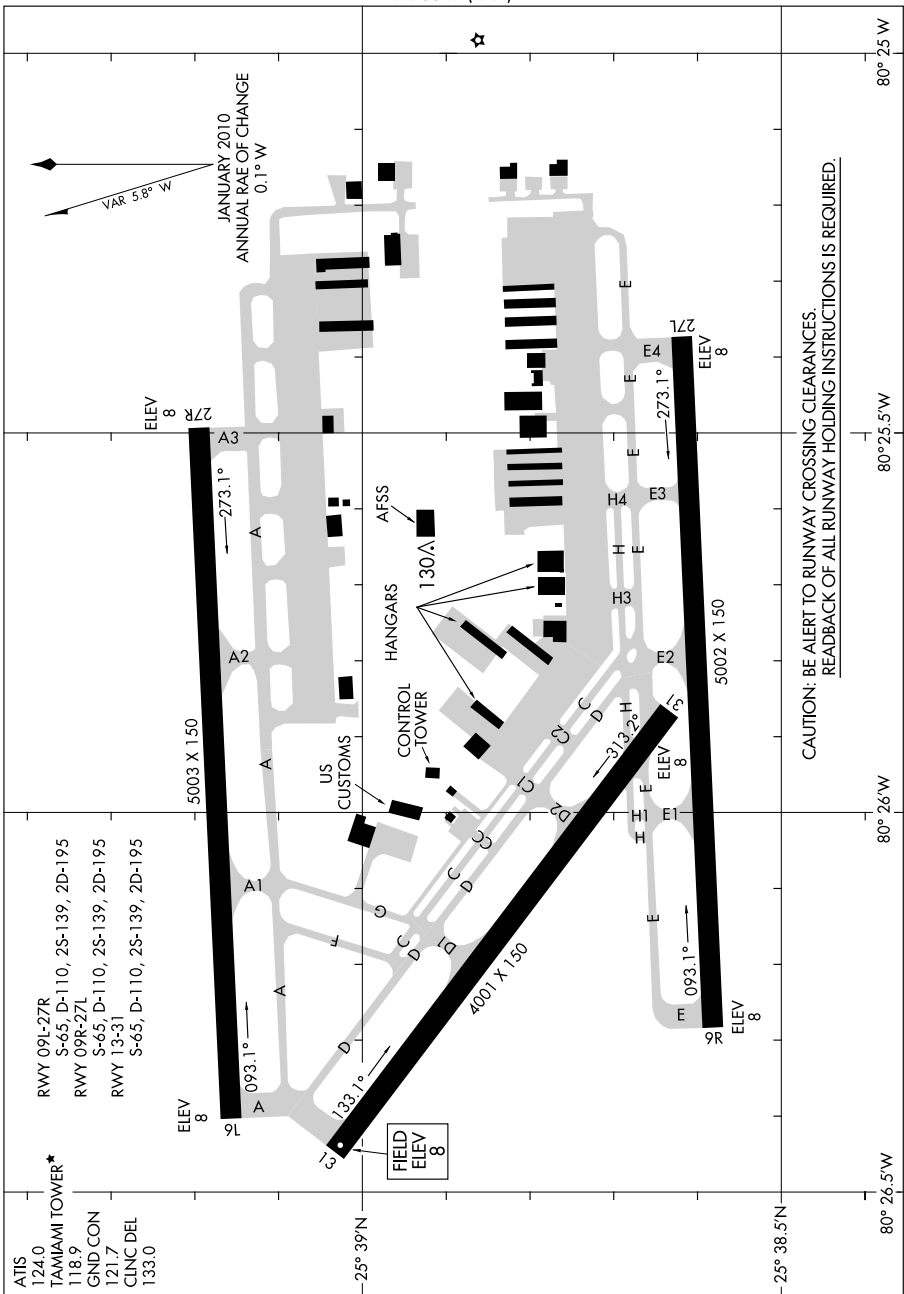
MELBOURNE, FLORIDA  
MELBOURNE INTL (MLB)

10210



10210  
AIRPORT DIAGRAM

MIAMI/KENDALL-TAMIAMI EXECUTIVE (TMB)  
AL-5349 (FAA) MIAMI, FLORIDA



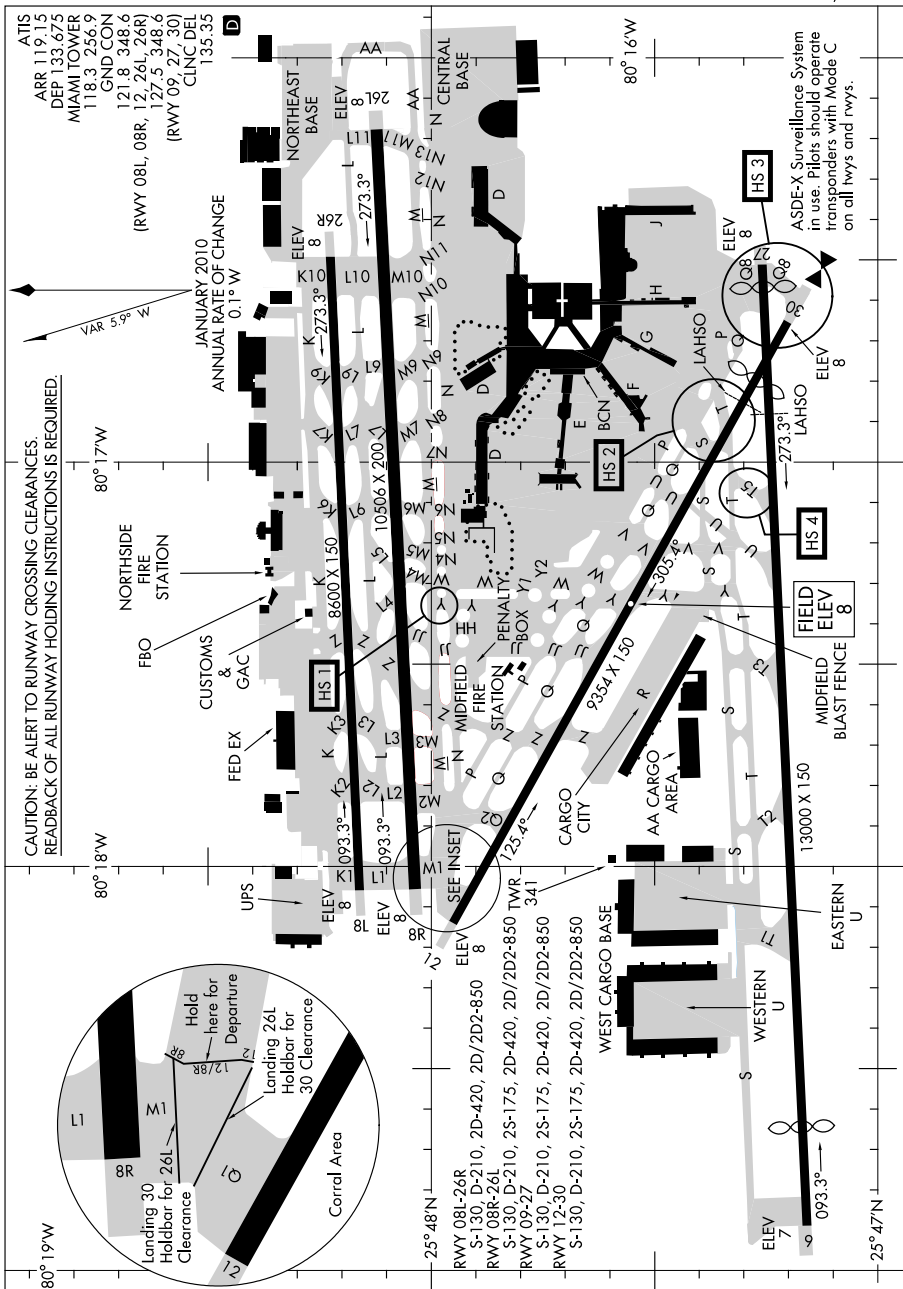
10210  
AIRPORT DIAGRAM

MIAMI, FLORIDA  
MIAMI/KENDALL-TAMIAMI EXECUTIVE (TMB)

# AIRPORT DIAGRAM

AL-257 (FAA)

MIAMI INTL (MIA)  
MIAMI, FLORIDA

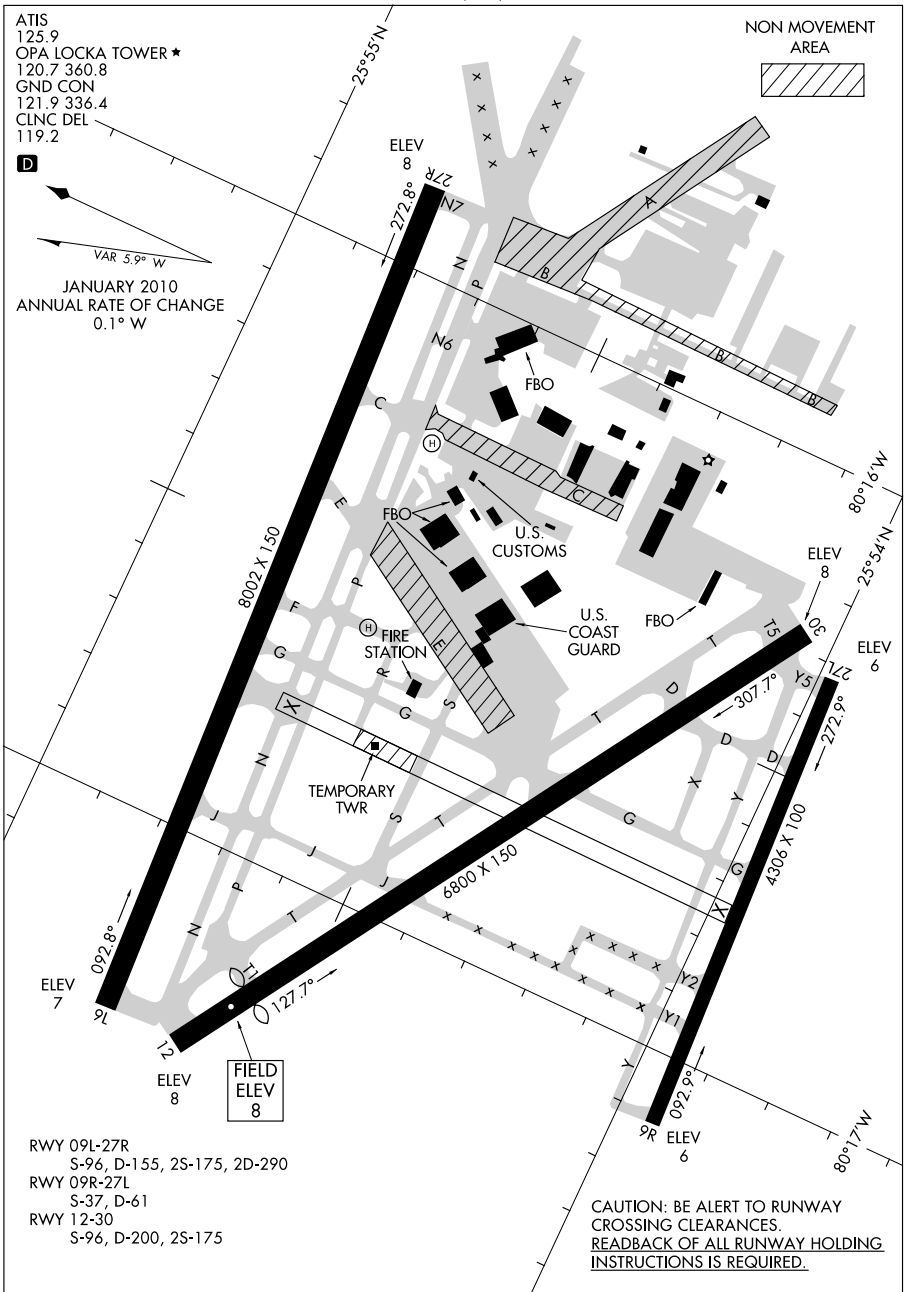


# AIRPORT DIAGRAM

MIAMI, FLORIDA  
MIAMI INTL (MIA)

# AIRPORT DIAGRAM

MIAMI/OPA LOCKA EXECUTIVE (OPF)  
MIAMI, FLORIDA



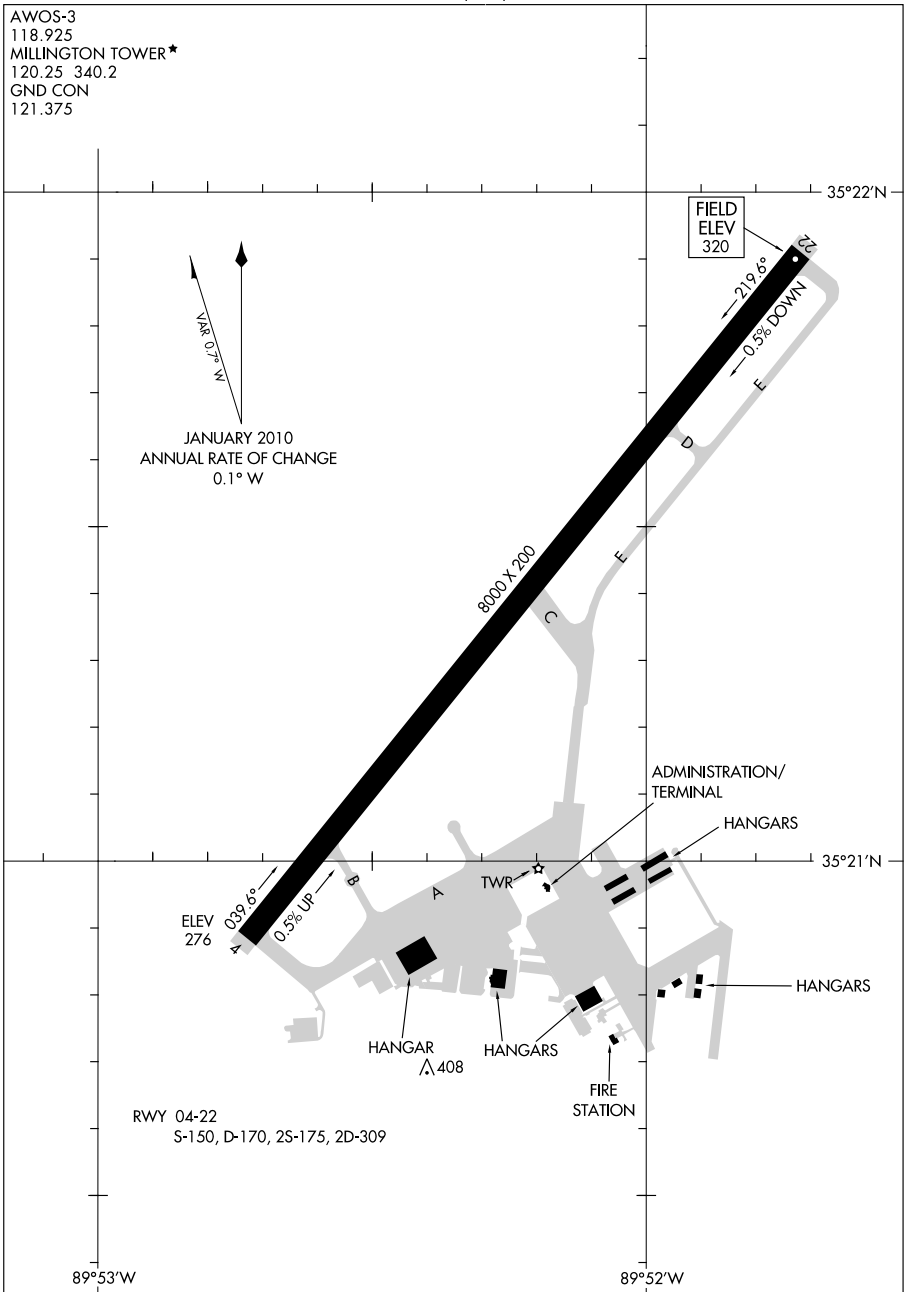
# AIRPORT DIAGRAM

MIAMI, FLORIDA  
MIAMI/OPA LOCKA EXECUTIVE (OPF)

# AIRPORT DIAGRAM

AL-910 (FAA)

MILLINGTON RGNL JETPORT (NQA)  
MILLINGTON, TENNESSEE



# AIRPORT DIAGRAM

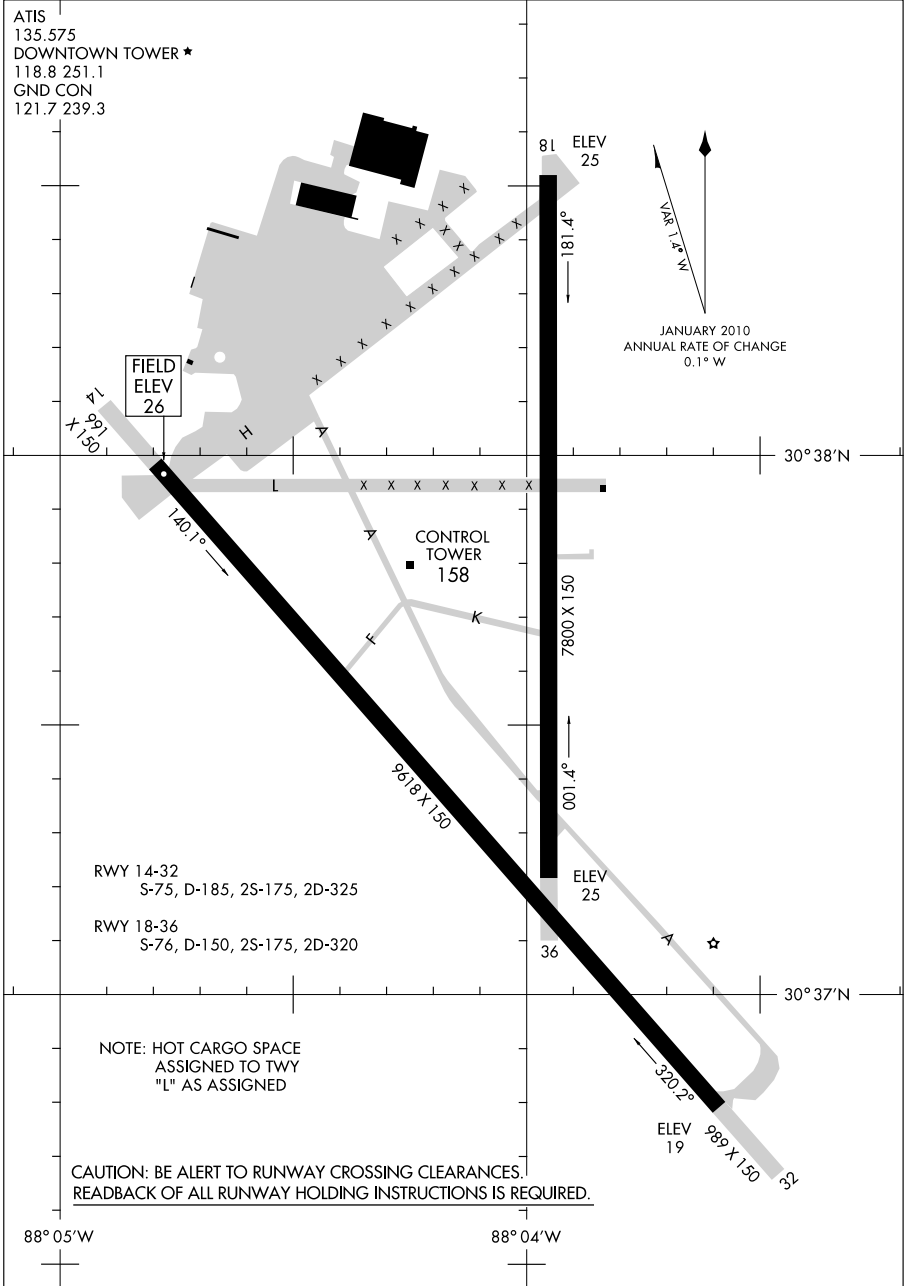
MILLINGTON, TENNESSEE  
MILLINGTON RGNL JETPORT (NQA)



# AIRPORT DIAGRAM

AL-268 (FAA)

MOBILE DOWNTOWN (BFM)  
MOBILE, ALABAMA



# AIRPORT DIAGRAM

MOBILE, ALABAMA  
MOBILE DOWNTOWN (BFM)

10210

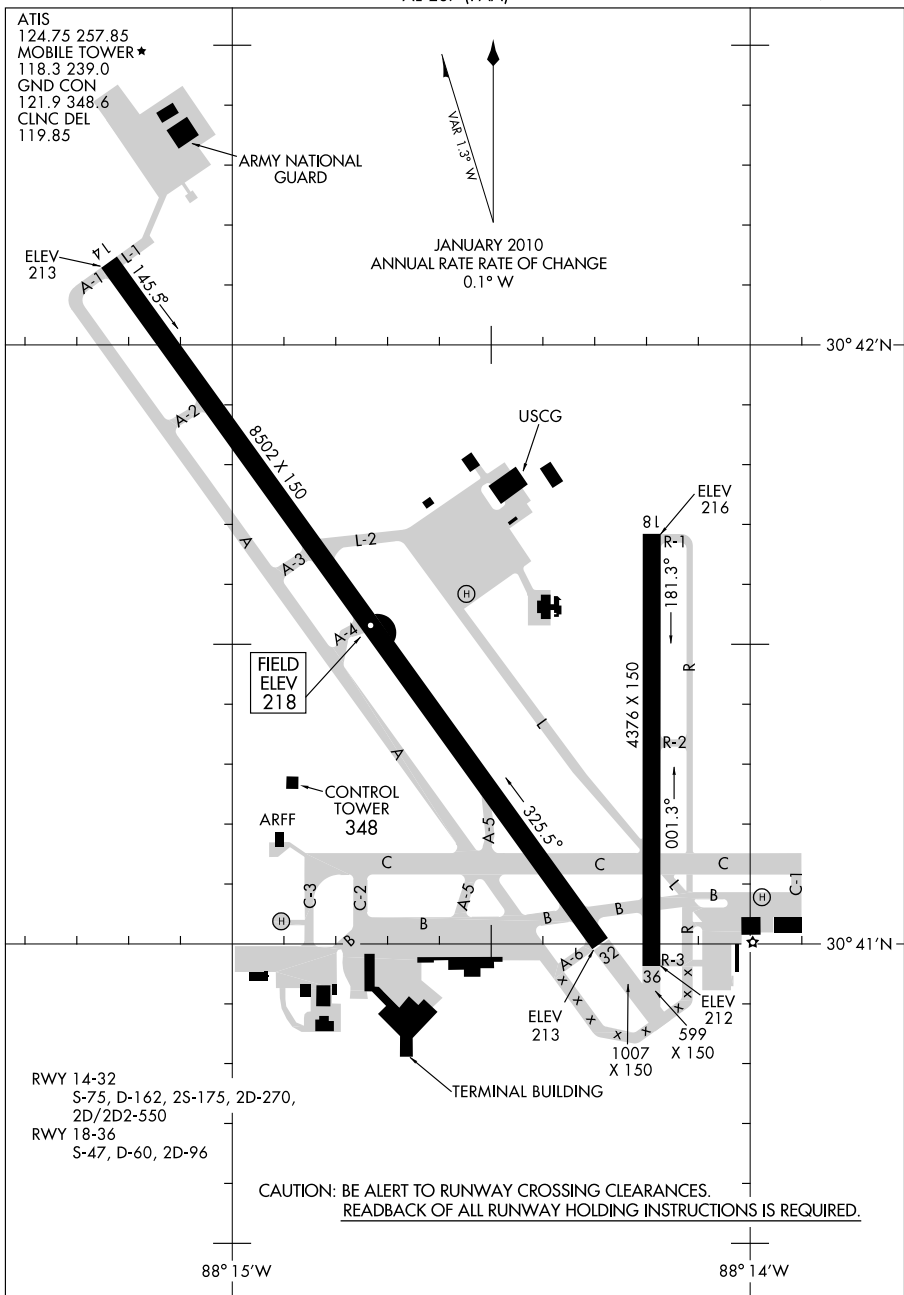
SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

AL-267 (FAA)

MOBILE RGNL (MOB)  
MOBILE, ALABAMA



## AIRPORT DIAGRAM

MOBILE, ALABAMA  
MOBILE RGNL (MOB)

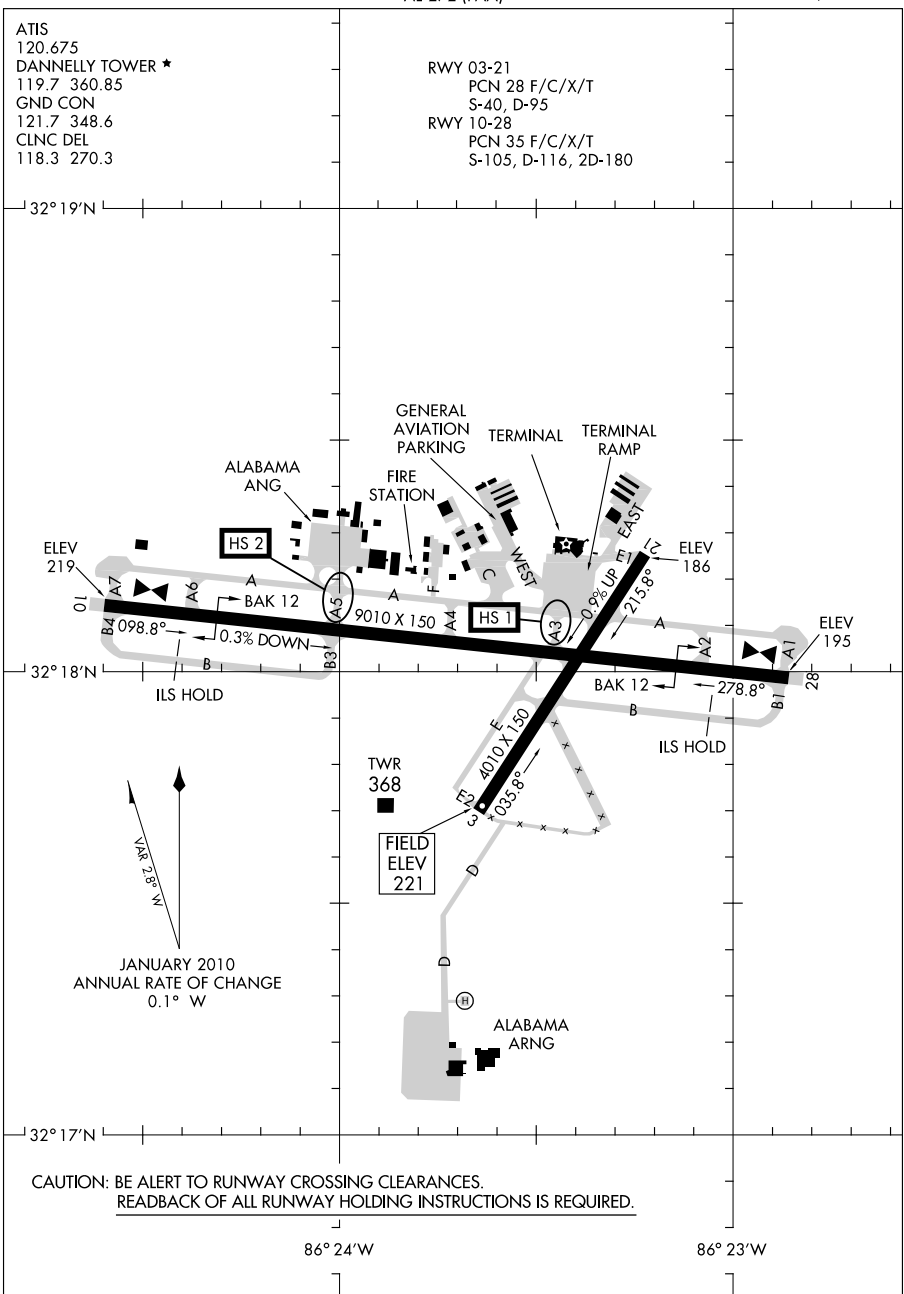
10210

SE, 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

MONTGOMERY RGNL (DANNELLY FIELD)(MGM)  
AL-272 (FAA)  
MONTGOMERY, ALABAMA



# AIRPORT DIAGRAM

MONTGOMERY, ALABAMA  
MONTGOMERY RGNL (DANNELLY FIELD)(MGM)

10266

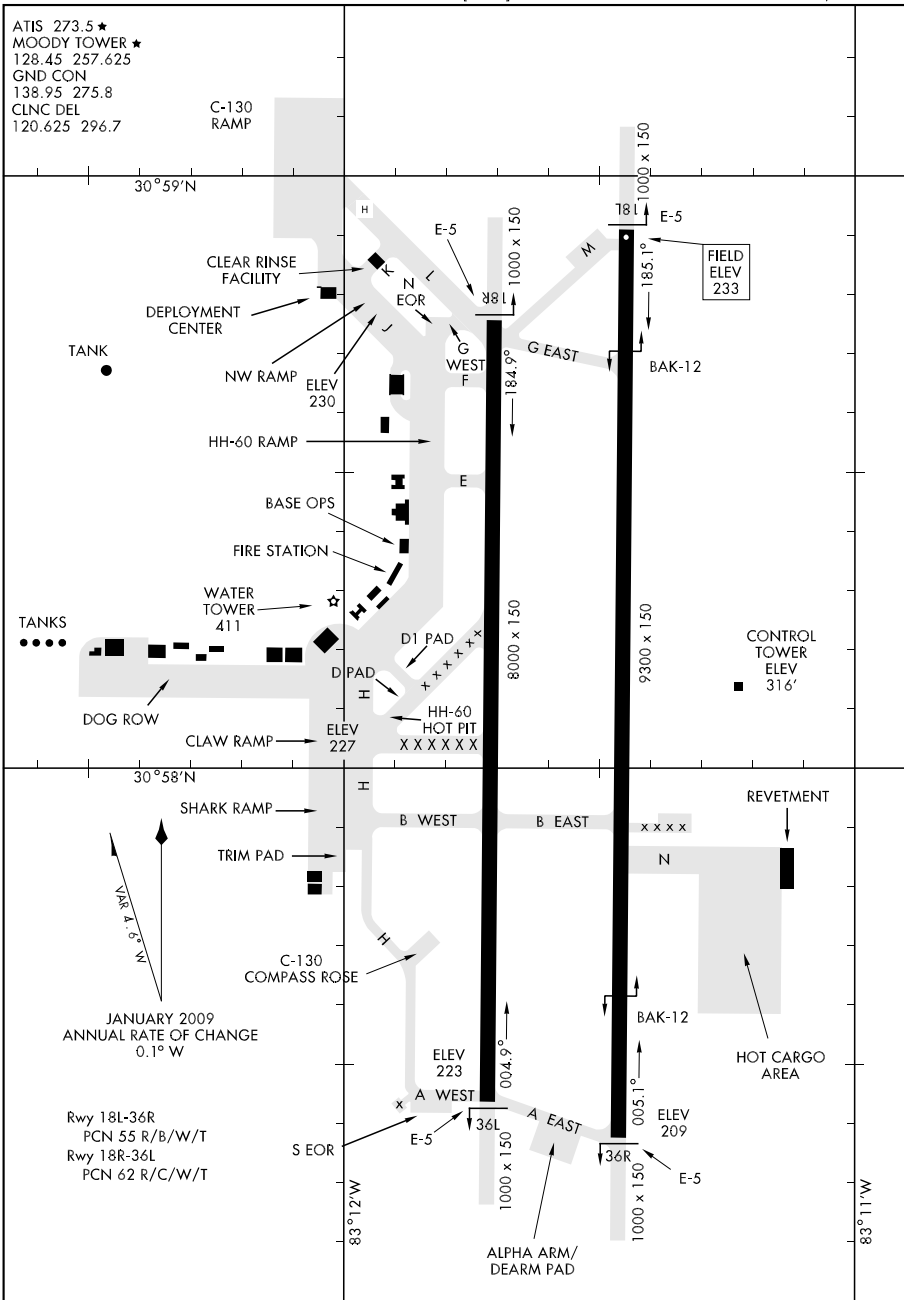
09015

MOODY AFB (KVAD)

## AIRPORT DIAGRAM

AFD-435 [USAF]

VALDOSTA, GEORGIA



## AIRPORT DIAGRAM

VALDOSTA, GEORGIA

MOODY AFB (KVAD)

SE. 23 SEP 2010 to 18 NOV 2010

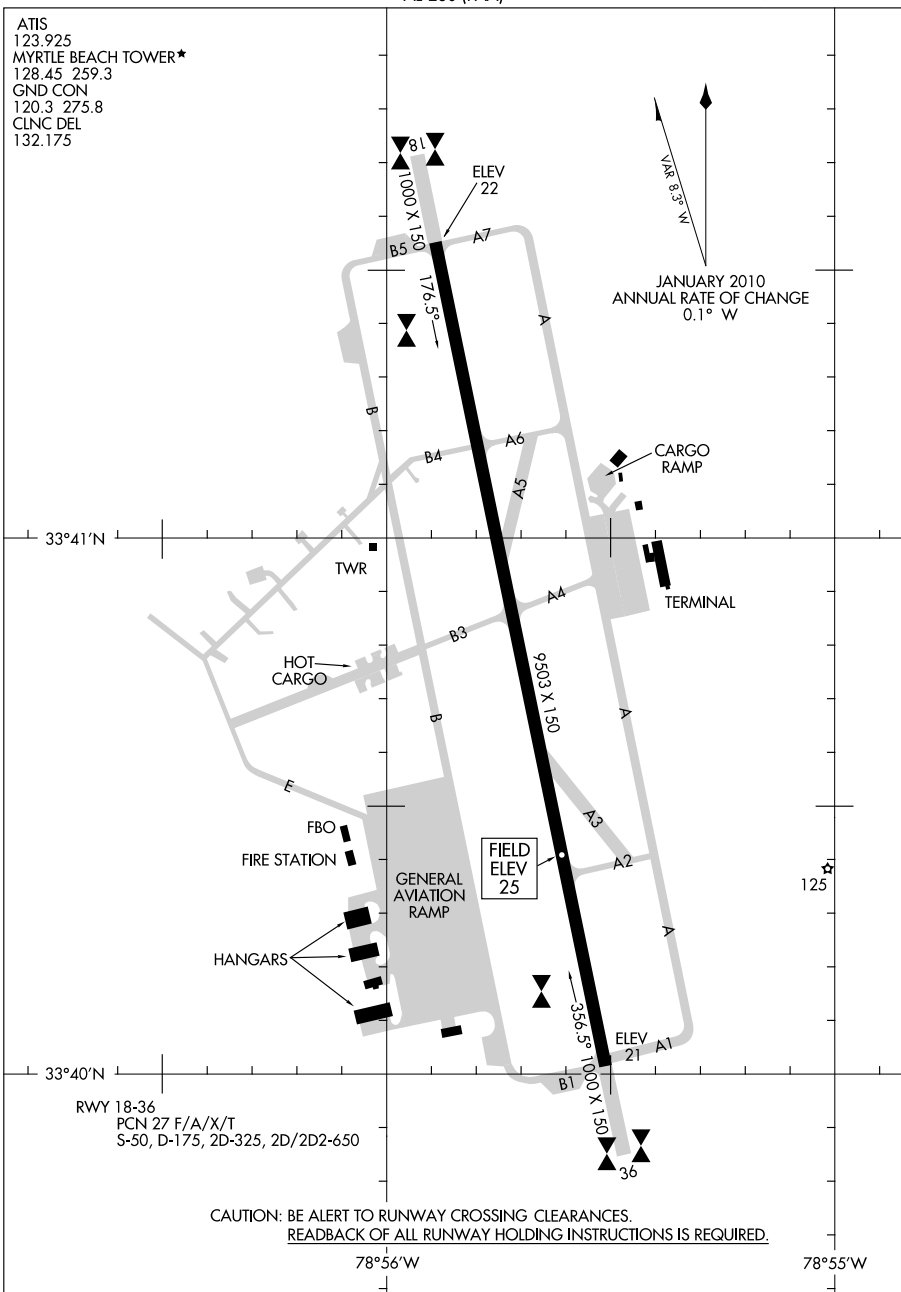
10210

## AIRPORT DIAGRAM

AL-280 (FAA)

MYRTLE BEACH INTL (MYR)  
MYRTLE BEACH, SOUTH CAROLINA

ATIS  
123.925  
MYRTLE BEACH TOWER★  
128.45 259.3  
GND CON  
120.3 275.8  
CLNC DEL  
132.175



## AIRPORT DIAGRAM

10210

MYRTLE BEACH, SOUTH CAROLINA  
MYRTLE BEACH INTL (MYR)

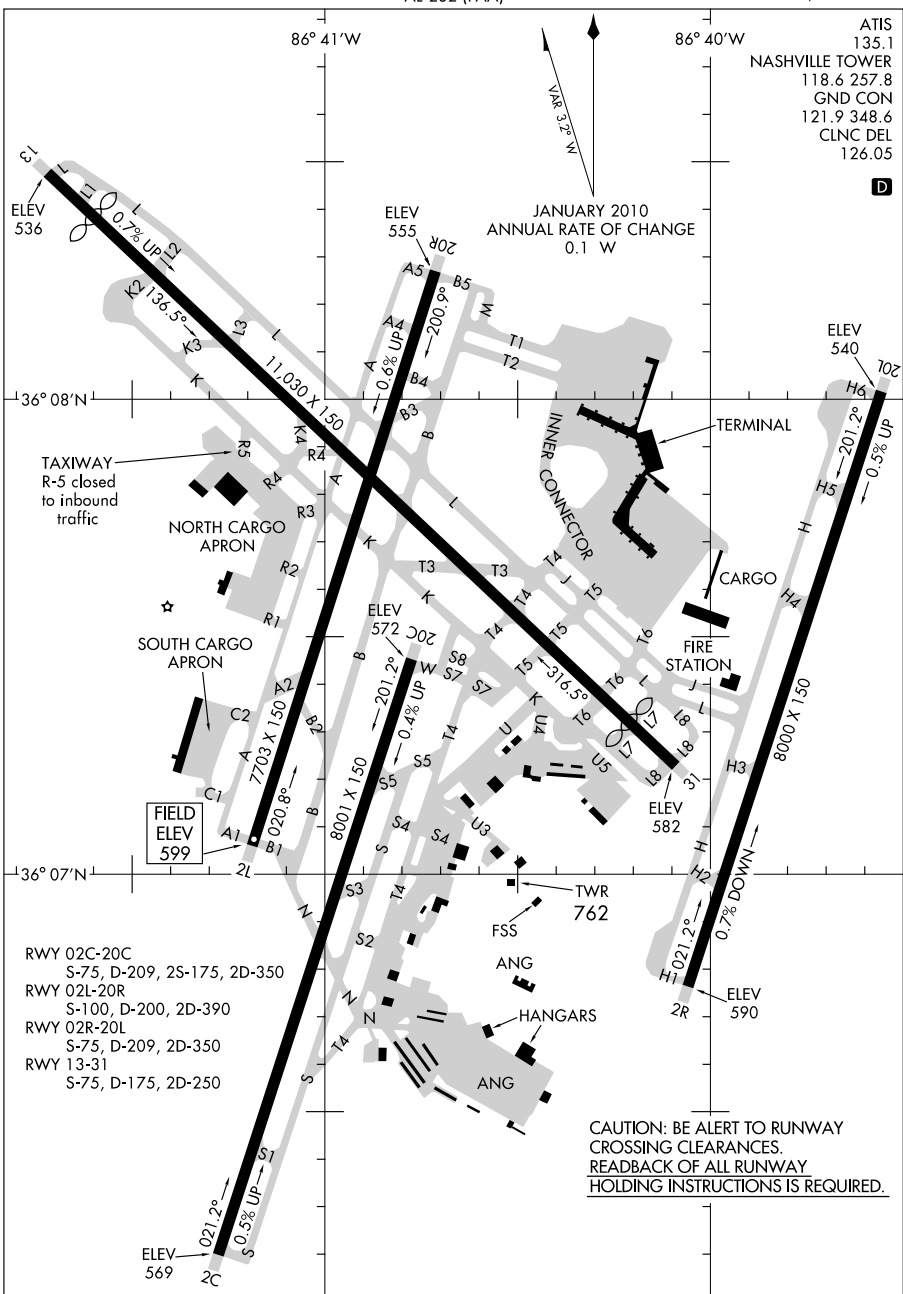
SE. 23 SEP 2010 to 18 NOV 2010



10210

## AIRPORT DIAGRAM

AL-282 (FAA)

NASHVILLE INTL (BNA)  
NASHVILLE, TENNESSEE

## AIRPORT DIAGRAM

10210

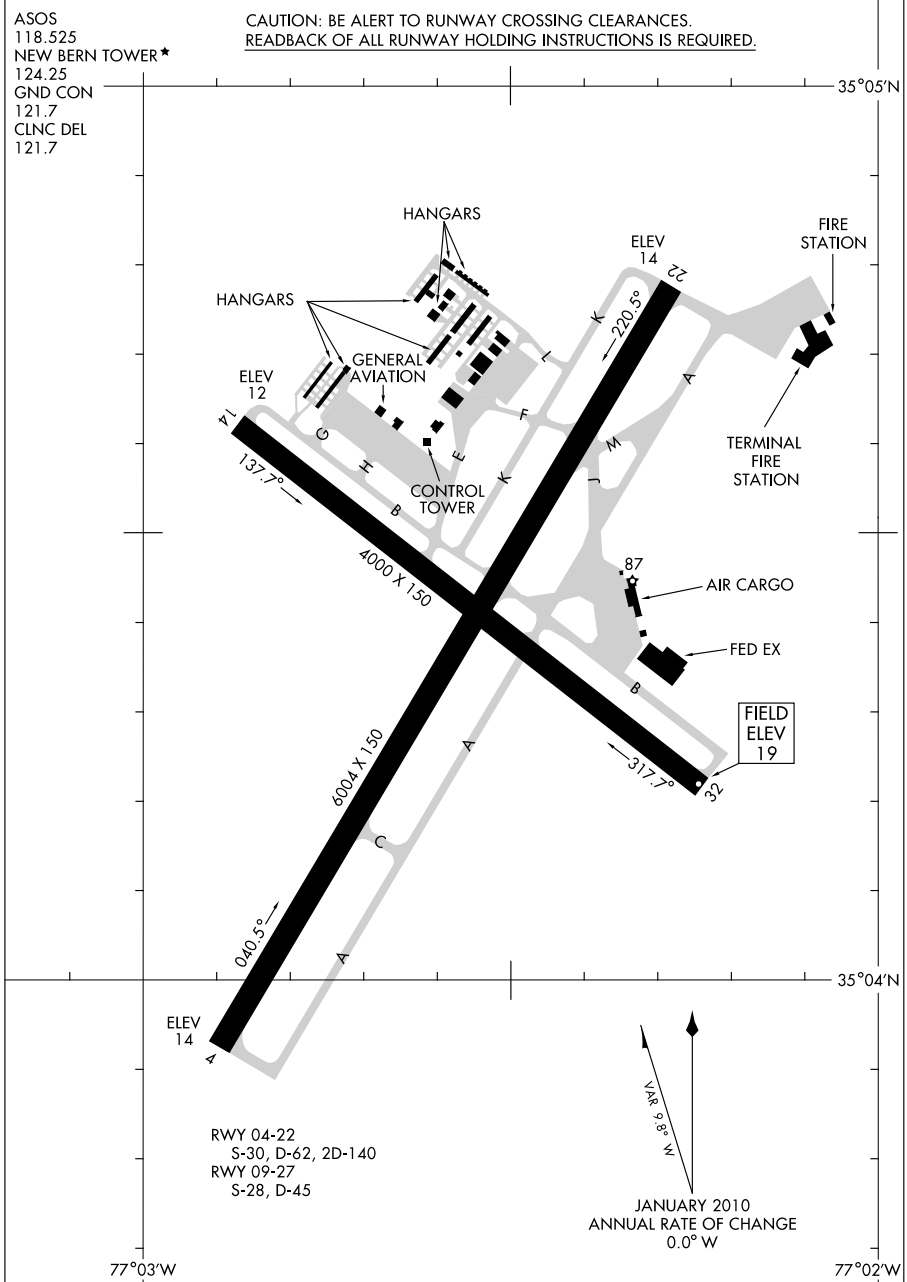
NASHVILLE, TENNESSEE  
NASHVILLE INTL (BNA)

SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

NEW BERN/COASTAL CAROLINA RGNL (EWN)  
AL-670 (FAA) NEW BERN, NORTH CAROLINA



# AIRPORT DIAGRAM

10210

NEW BERN, NORTH CAROLINA  
NEW BERN/COASTAL CAROLINA RGNL (EWN)

SE. 23 SEP 2010 to 18 NOV 2010



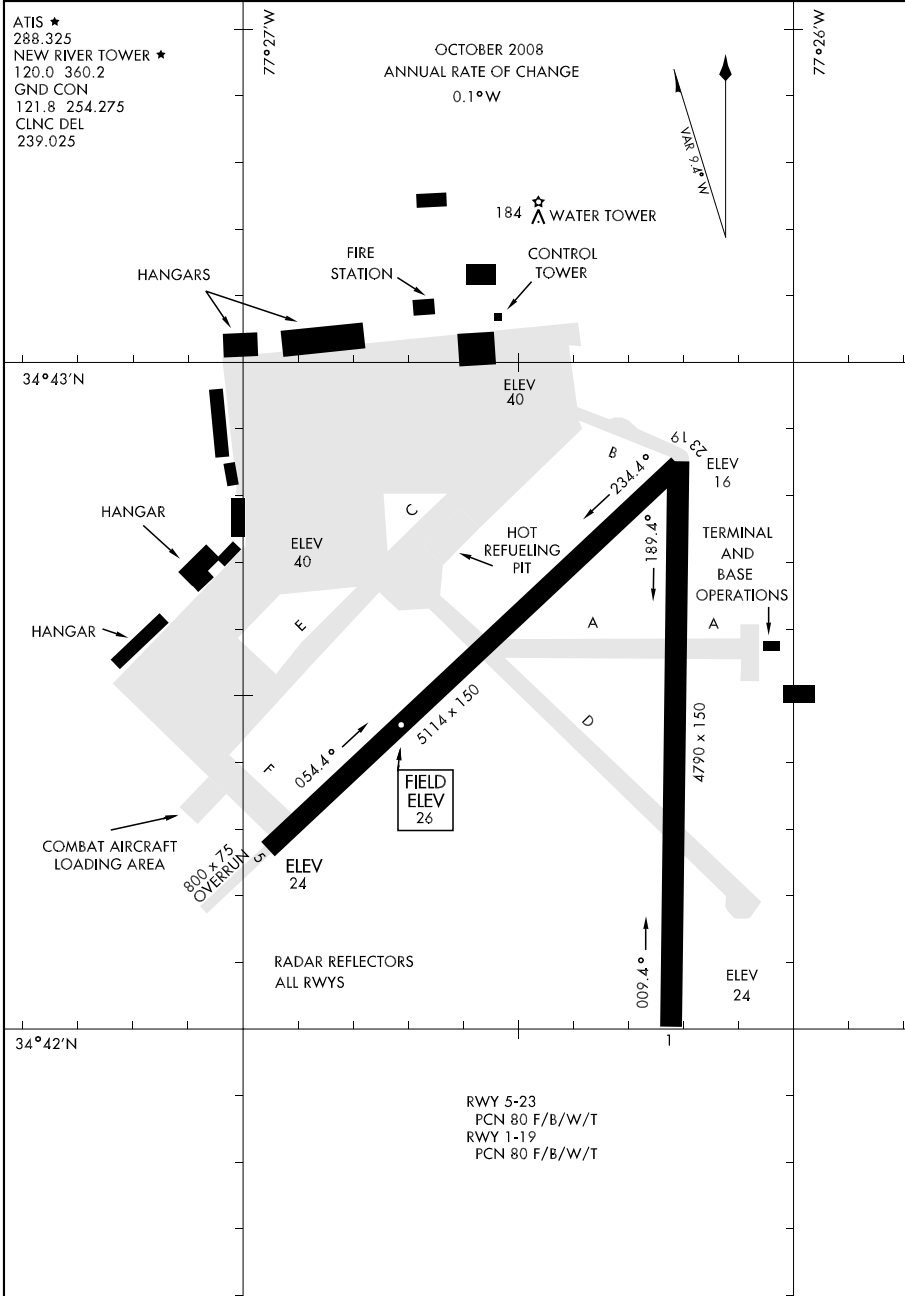
08325

## AIRPORT DIAGRAM

AFD-732 [USN]

NEW RIVER MCAS (KNCA)

JACKSONVILLE, NORTH CAROLINA



## AIRPORT DIAGRAM

JACKSONVILLE, NORTH CAROLINA

NEW RIVER MCAS (KNCA)

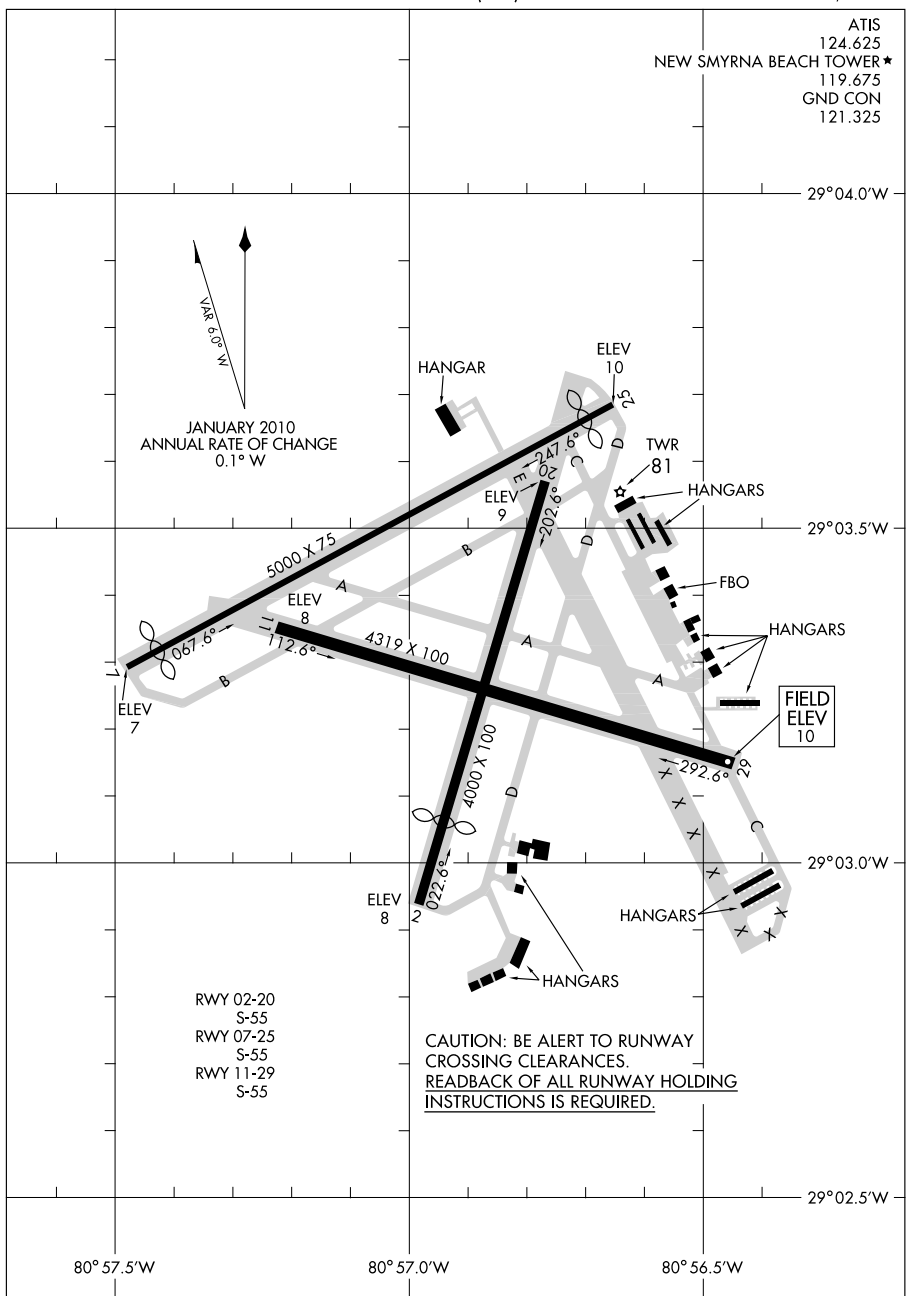
SE. 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

AL-6459 (FAA)

NEW SMYRNA BEACH MUNI (EVV)  
NEW SMYRNA BEACH, FLORIDA



# AIRPORT DIAGRAM

10266

NEW SMYRNA BEACH, FLORIDA  
NEW SMYRNA BEACH MUNI (EVV)

SE. 23 SEP 2010 to 18 NOV 2010

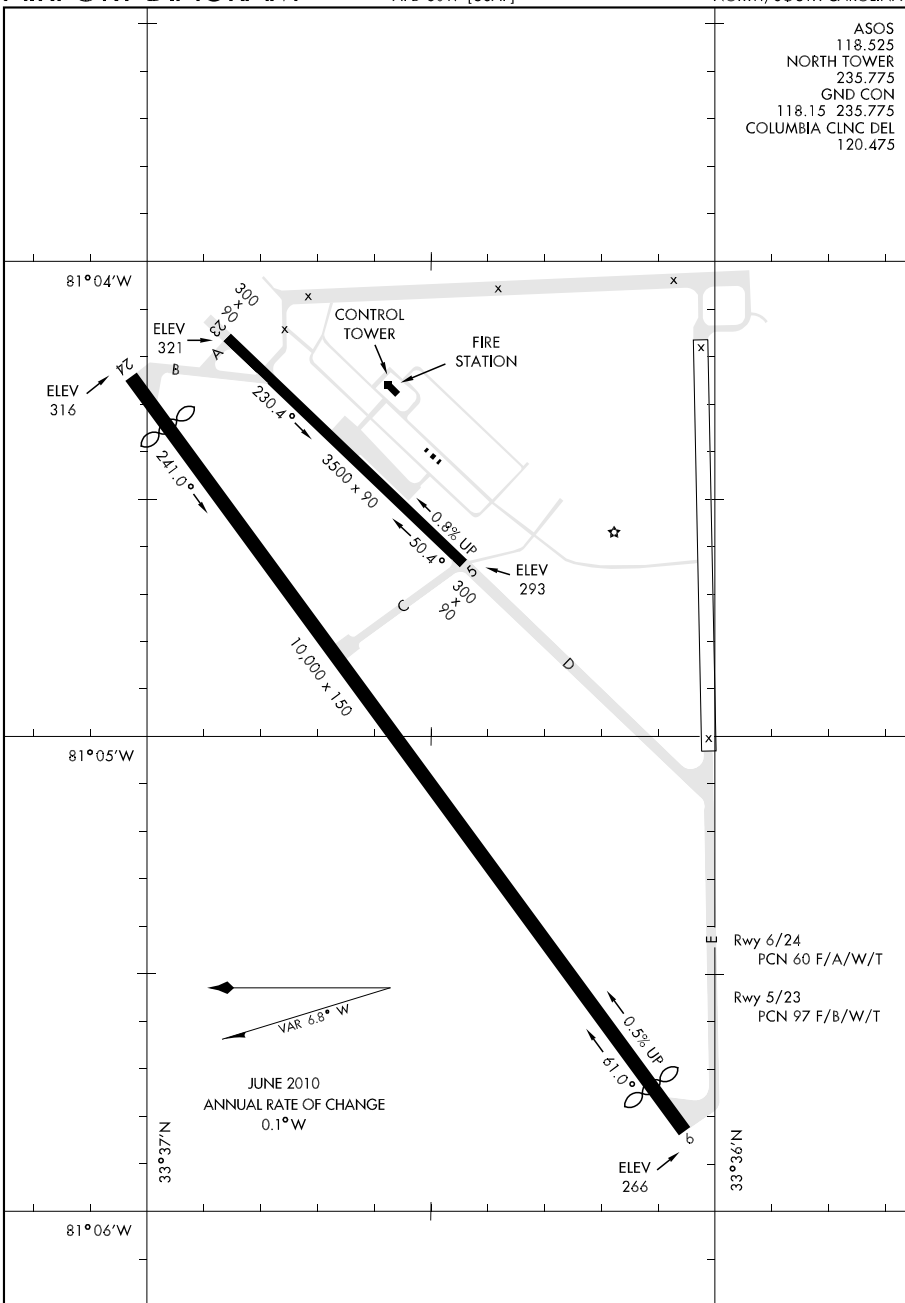
Orig 10154

# AIRPORT DIAGRAM

AFD-3017 [USAF]

NORTH AF AUX (KXNO)

NORTH, SOUTH CAROLINA



# AIRPORT DIAGRAM

NORTH, SOUTH CAROLINA

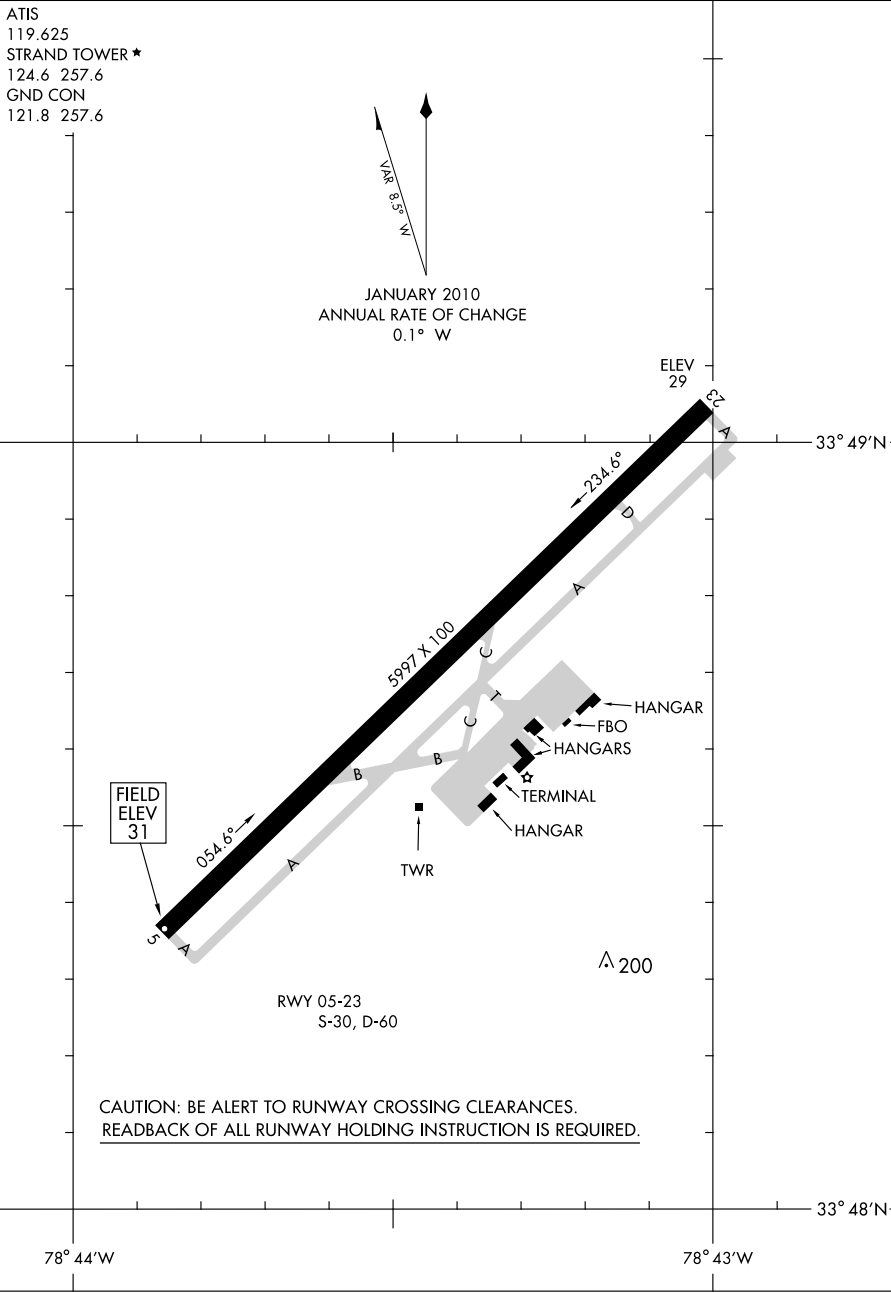
NORTH AF AUX (KXNO)

SE. 23 SEP 2010 to 18 NOV 2010

10210  
AIRPORT DIAGRAM

NORTH MYRTLE BEACH/GRAND STRAND (CRE)  
AL-5097 (FAA) NORTH MYRTLE BEACH, SOUTH CAROLINA

ATIS  
119.625  
STRAND TOWER ★  
124.6 257.6  
GND CON  
121.8 257.6



AIRPORT DIAGRAM  
10210

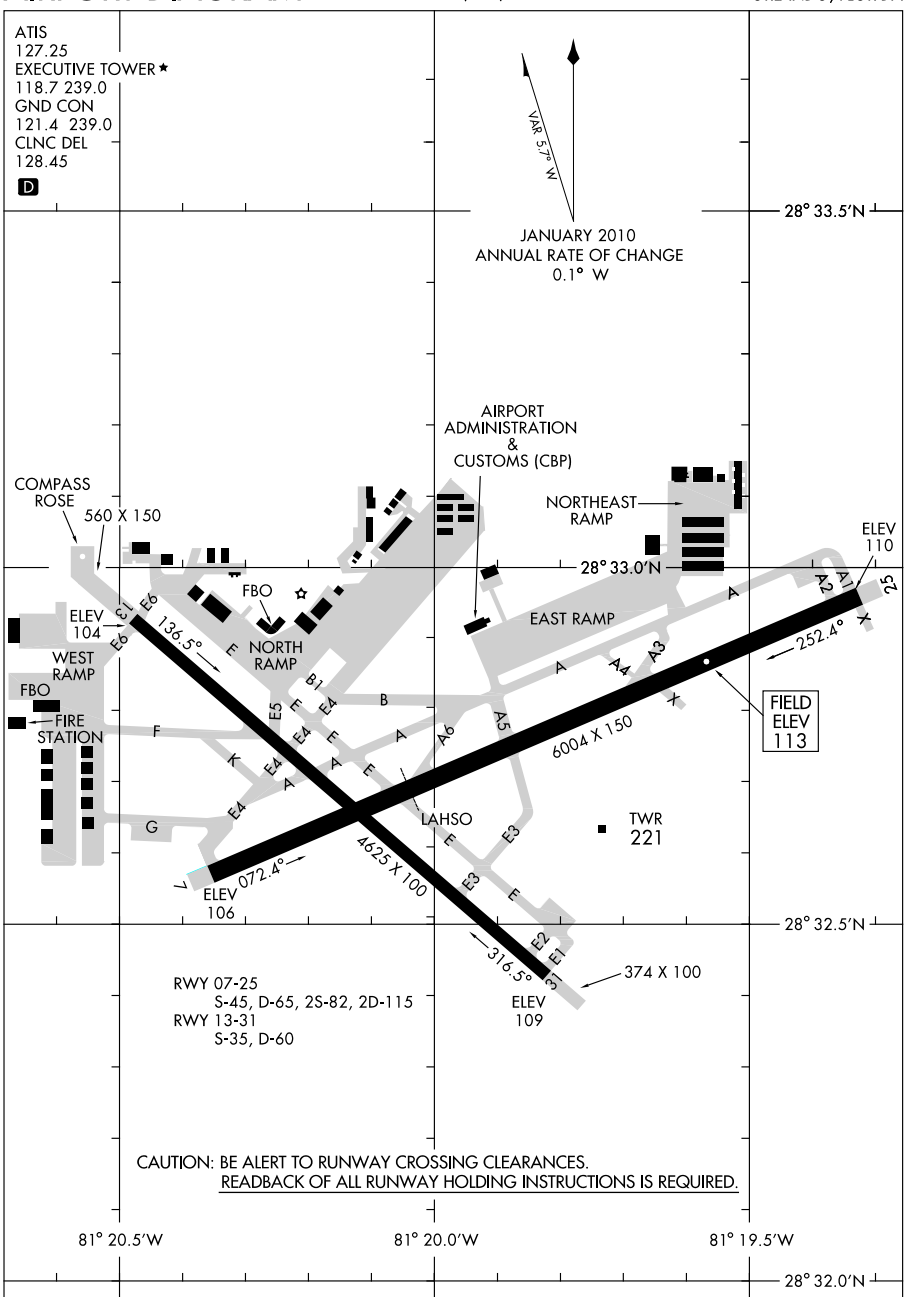
NORTH MYRTLE BEACH, SOUTH CAROLINA  
NORTH MYRTLE BEACH/GRAND STRAND (CRE)

10266

# AIRPORT DIAGRAM

AL-305 (FAA)

ORLANDO/EXECUTIVE (ORL)  
ORLANDO, FLORIDA

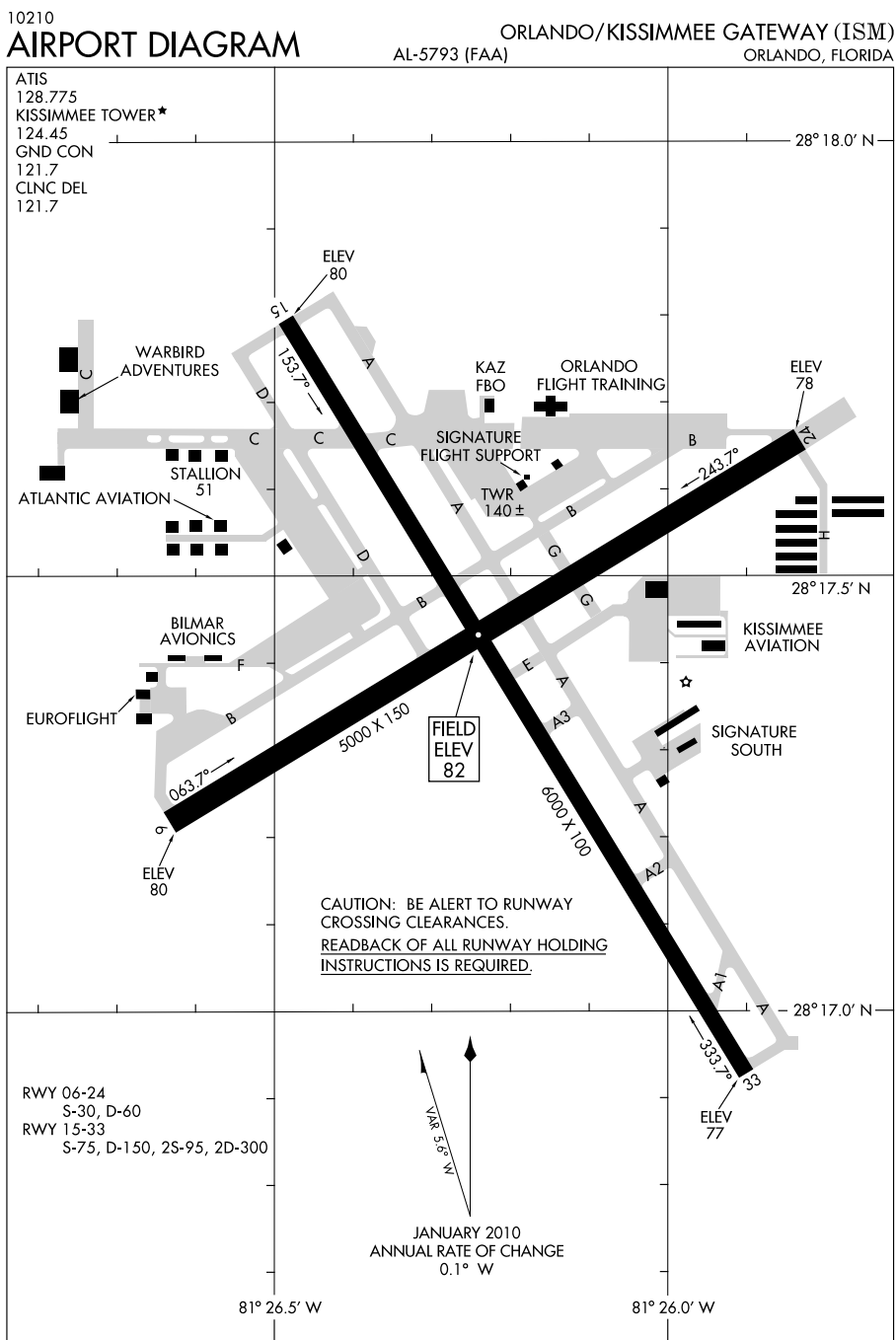


# AIRPORT DIAGRAM

ORLANDO, FLORIDA  
ORLANDO/EXECUTIVE (ORL)

10266

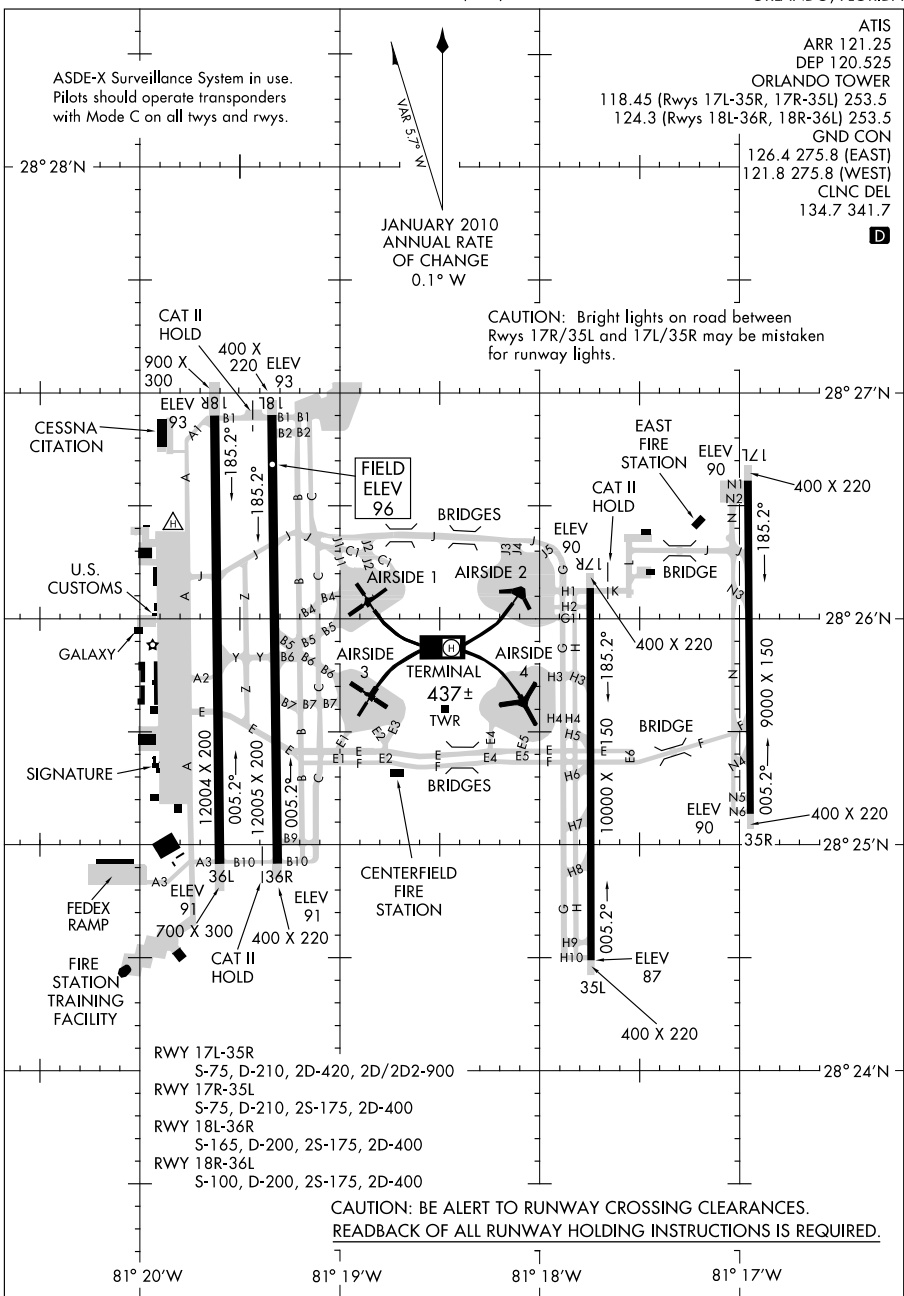
SE. 23 SEP 2010 to 18 NOV 2010



10210

# AIRPORT DIAGRAM

ORLANDO INTL (MCO)  
ORLANDO, FLORIDA



# AIRPORT DIAGRAM

ORLANDO, FLORIDA  
ORLANDO INTL (MCO)

10210



SE, 23 SEP 2010 to 18 NOV 2010

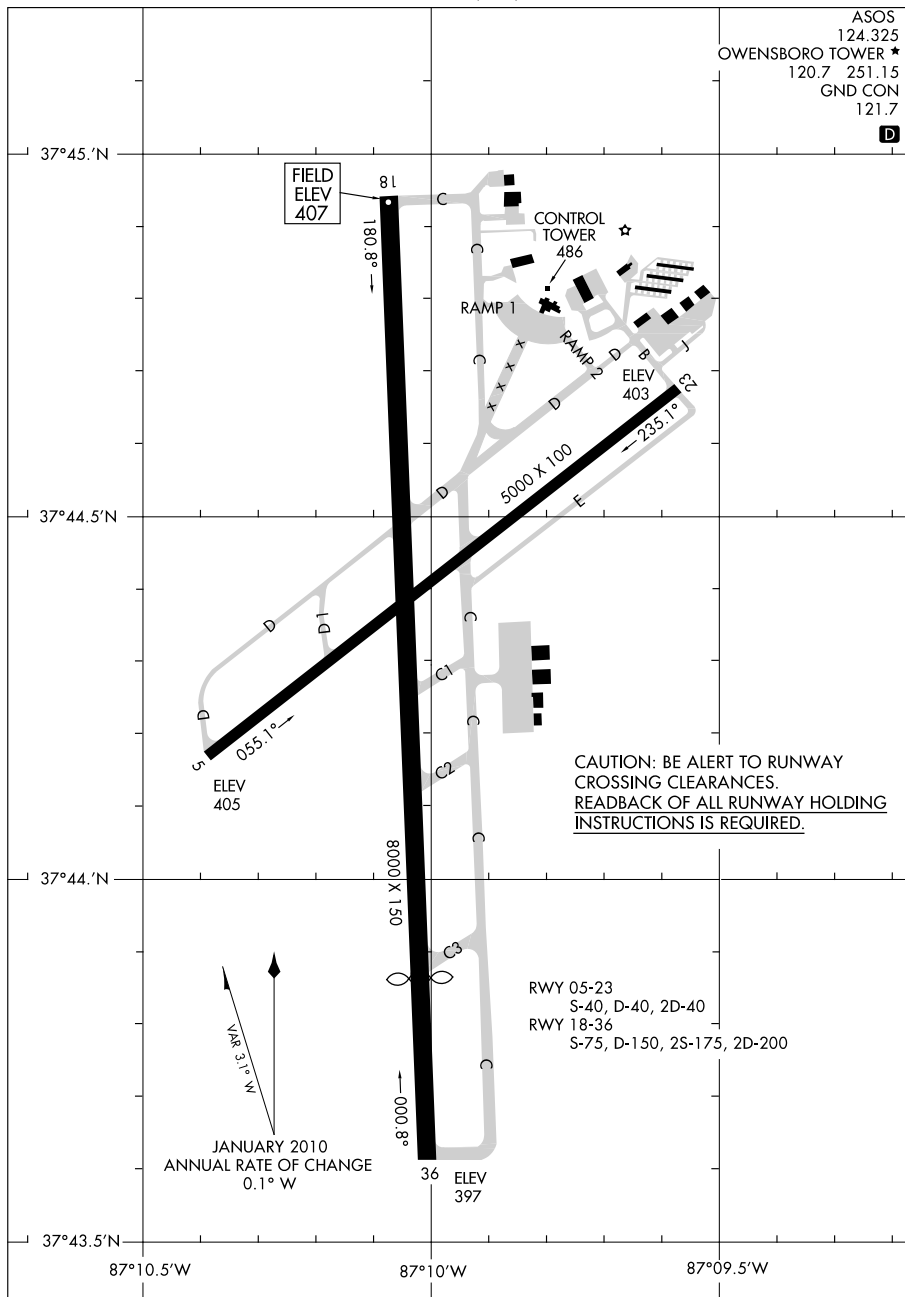




10210

# AIRPORT DIAGRAM

AL-707 (FAA) OWENSBORO-DAVIESS COUNTY (OWB)  
OWENSBORO, KENTUCKY



# AIRPORT DIAGRAM

10210

OWENSBORO, KENTUCKY  
OWENSBORO-DAVIESS COUNTY (OWB)

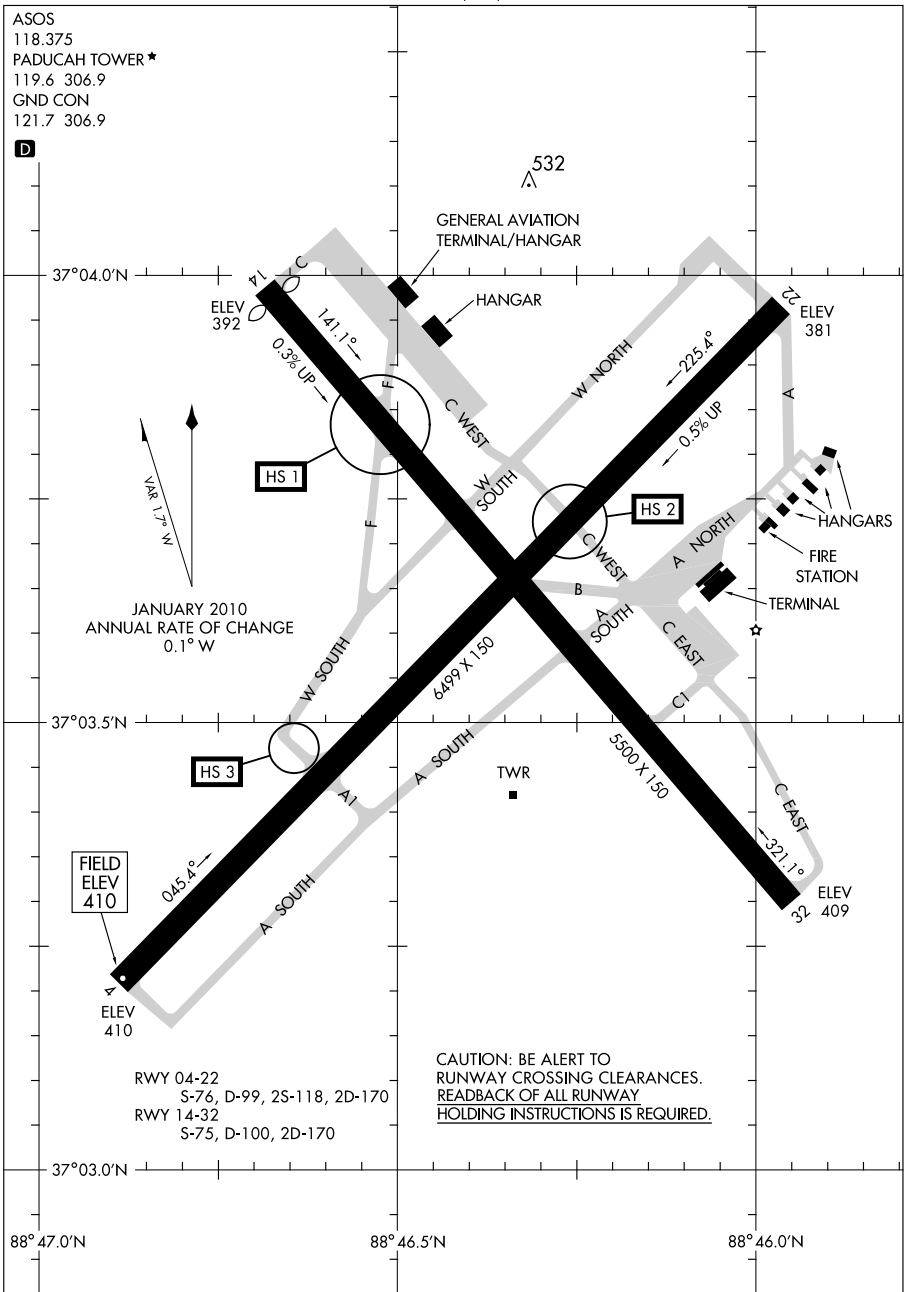
SE. 23 SEP 2010 to 18 NOV 2010

10266

## AIRPORT DIAGRAM

PADUCAH/BARKLEY RGNL (PAH)

PADUCAH, KENTUCKY



## AIRPORT DIAGRAM

10266

PADUCAH, KENTUCKY  
PADUCAH/BARKLEY RGNL (PAH)

SE. 23 SEP 2010 to 18 NOV 2010

10210

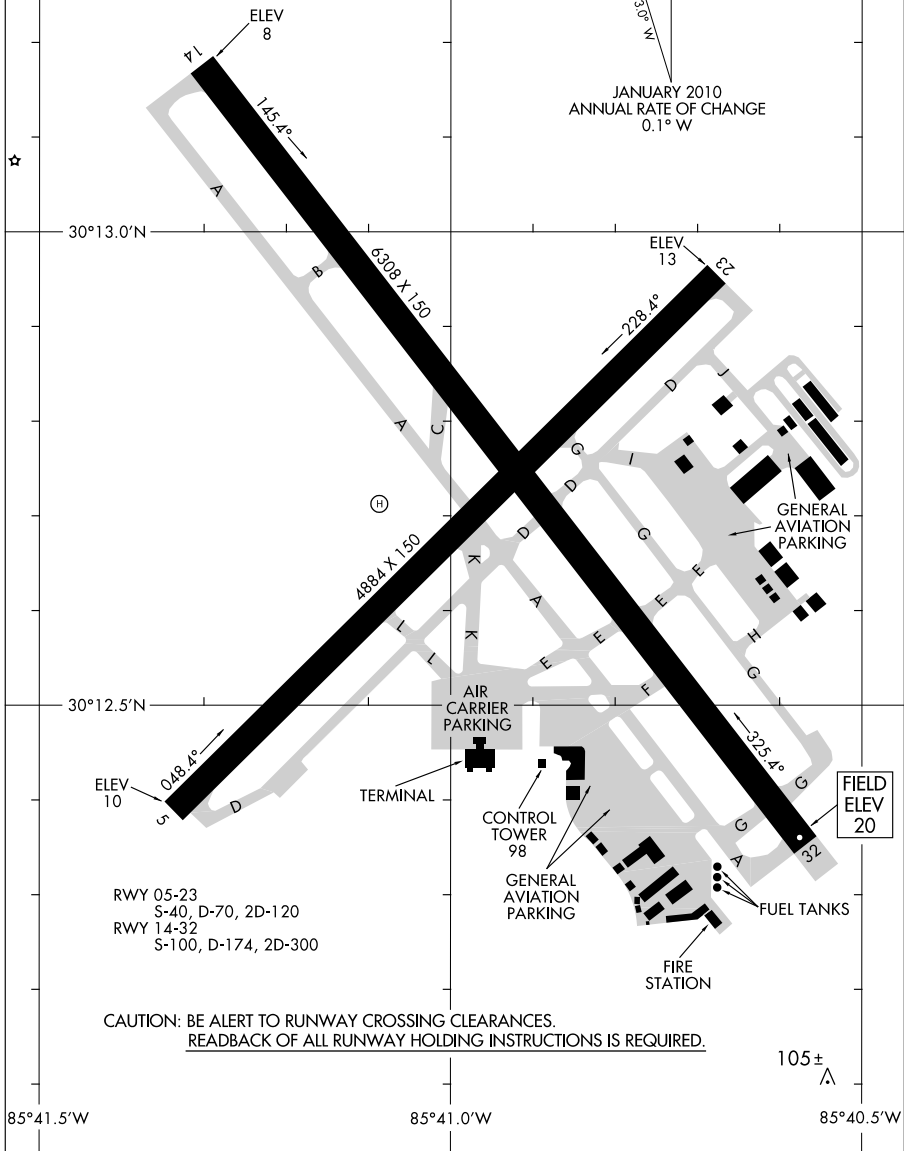
## AIRPORT DIAGRAM

AL-695 (FAA)

PANAMA CITY-BAY COUNTY INTL (P'N)

PANAMA CITY, FLORIDA

ATIS  
119.975  
PANAMA CITY TOWER ★  
120.5 269.0  
GND CON  
121.65



## AIRPORT DIAGRAM

10210

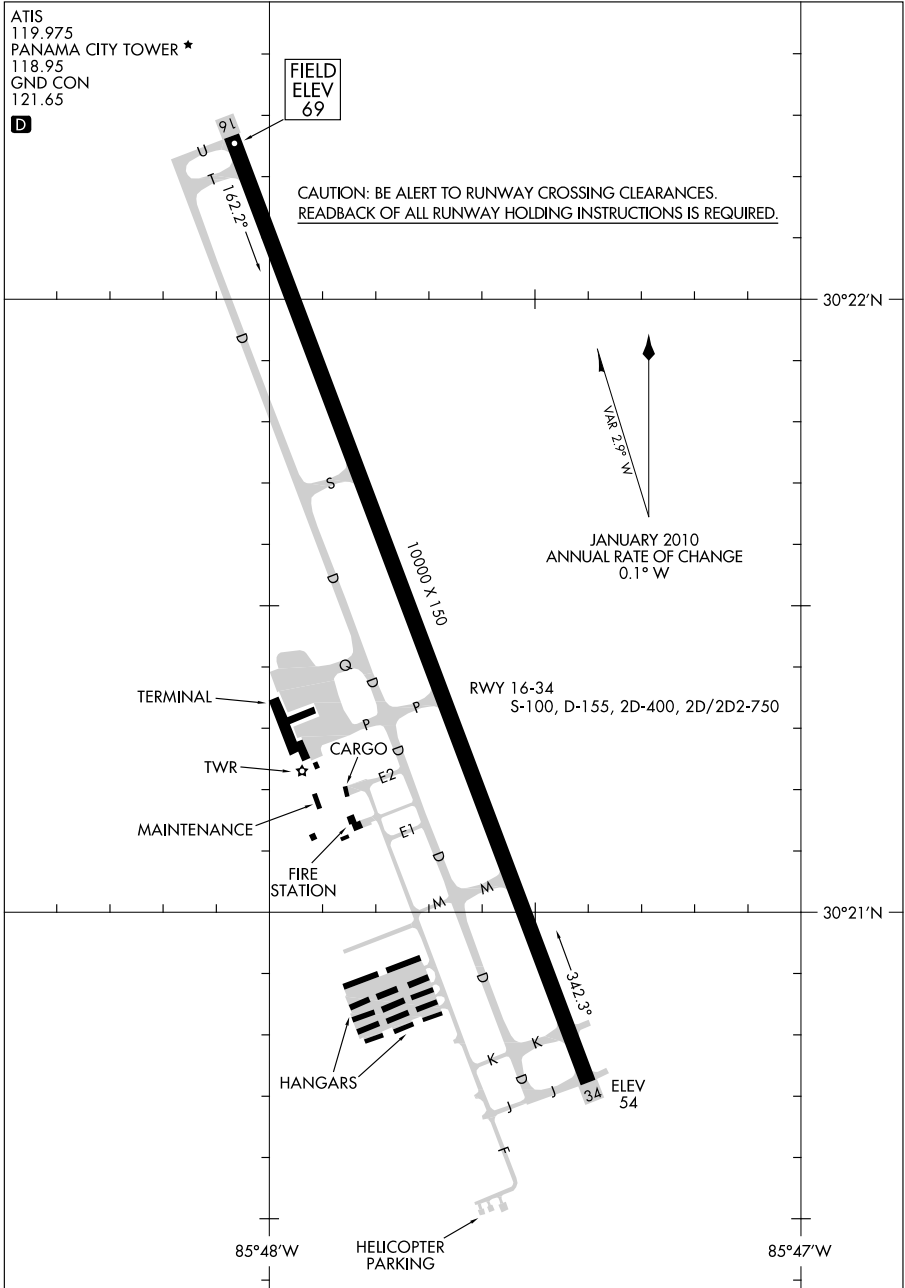
PANAMA CITY, FLORIDA  
PANAMA CITY-BAY COUNTY INTL (P'N)

SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)  
AL-10416 (FAA) PANAMA CITY, FLORIDA



# AIRPORT DIAGRAM

PANAMA CITY, FLORIDA  
PANAMA CITY/NORTHWEST FLORIDA - PANAMA CITY INTL (ECP)

10210

SE. 23 SEP 2010 to 18 NOV 2010

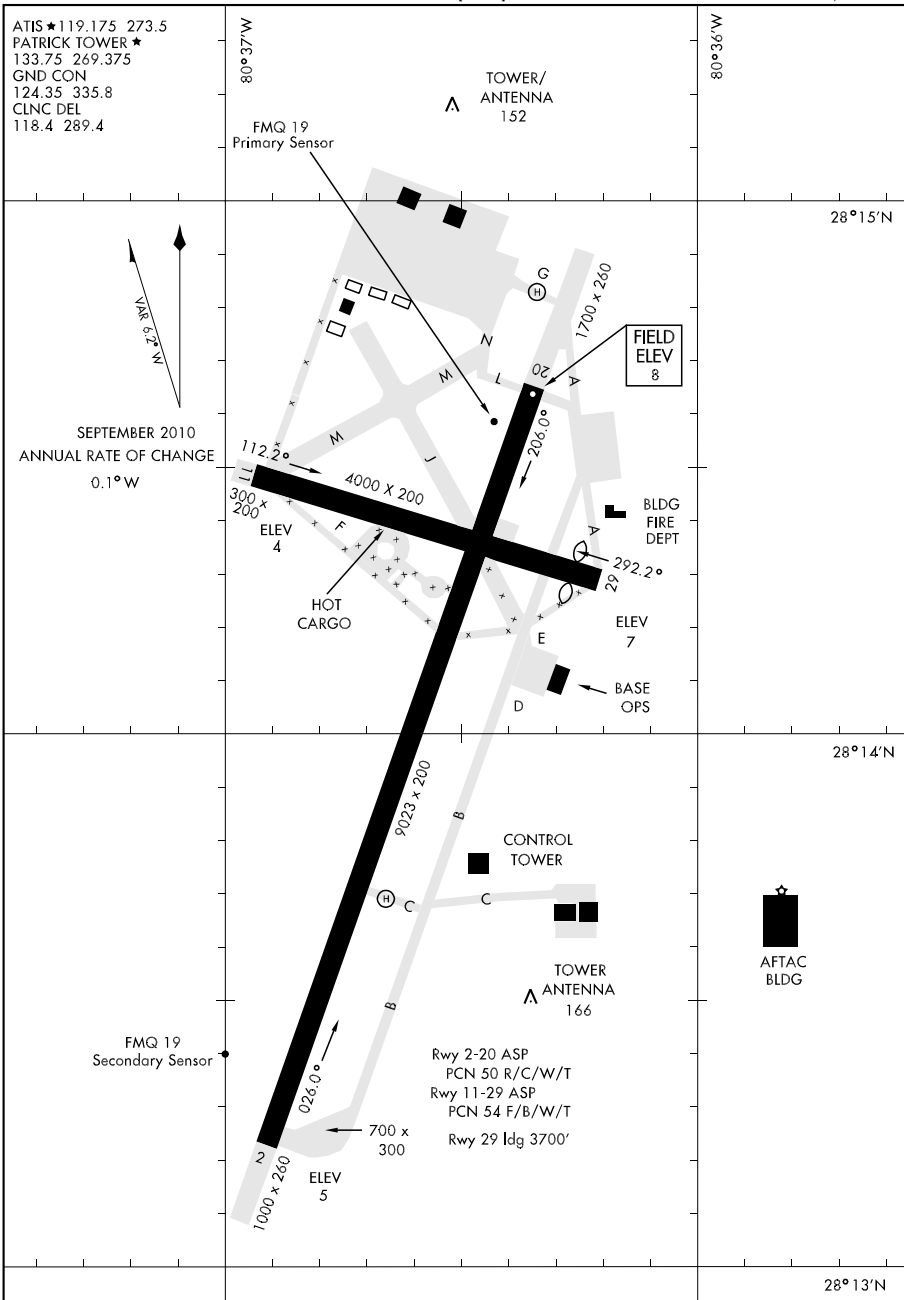
10266

## AIRPORT DIAGRAM

AFD-38 [USAF]

PATRICK AFB (KCOF)

COCOA BEACH, FLORIDA



## AIRPORT DIAGRAM

COCOA BEACH, FLORIDA

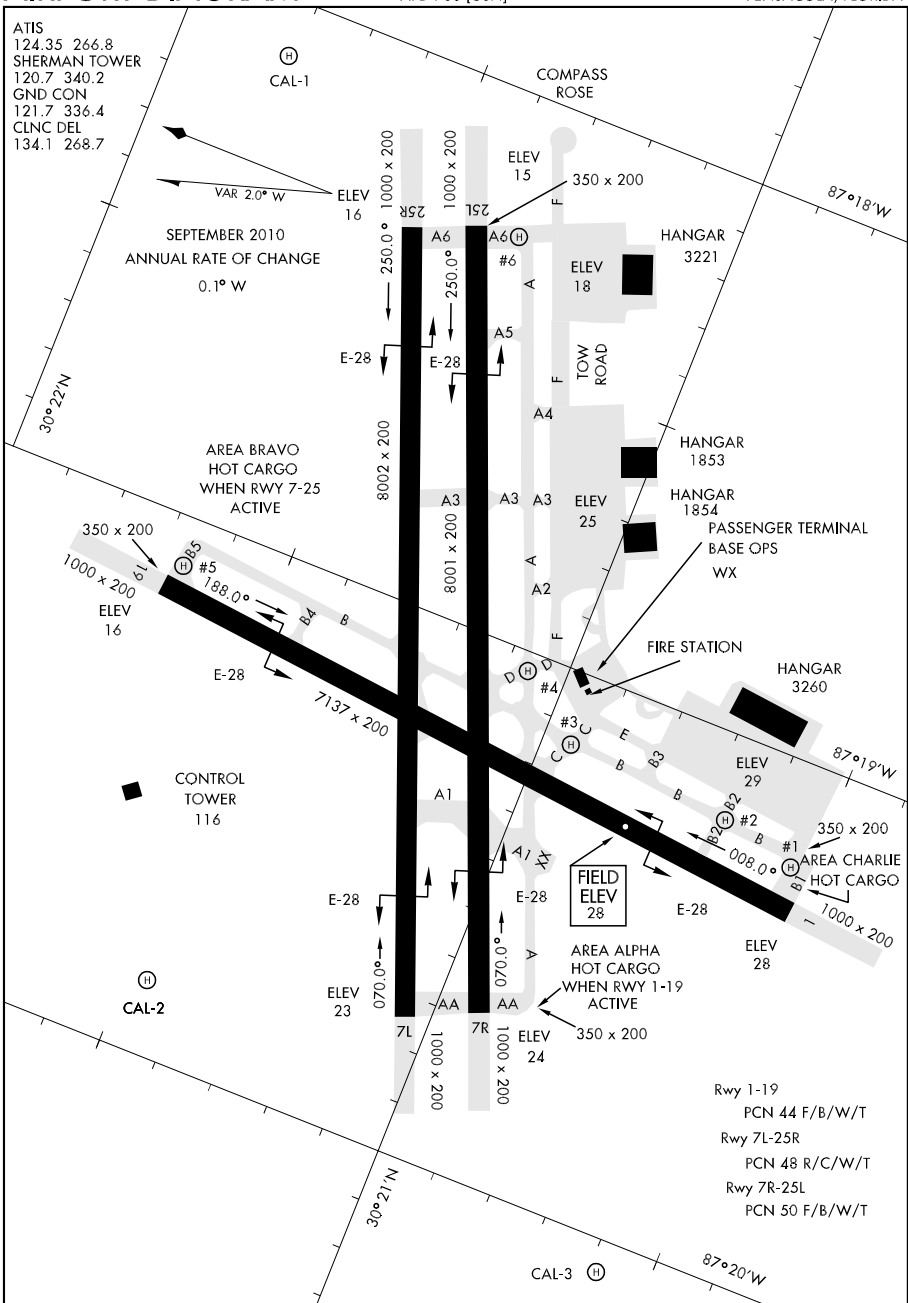
PATRICK AFB (KCOF)

SE. 23 SEP 2010 to 18 NOV 2010

10266

## AIRPORT DIAGRAM

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)  
AFD-736 [USN] PENSACOLA, FLORIDA



## AIRPORT DIAGRAM

PENSACOLA, FLORIDA  
PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

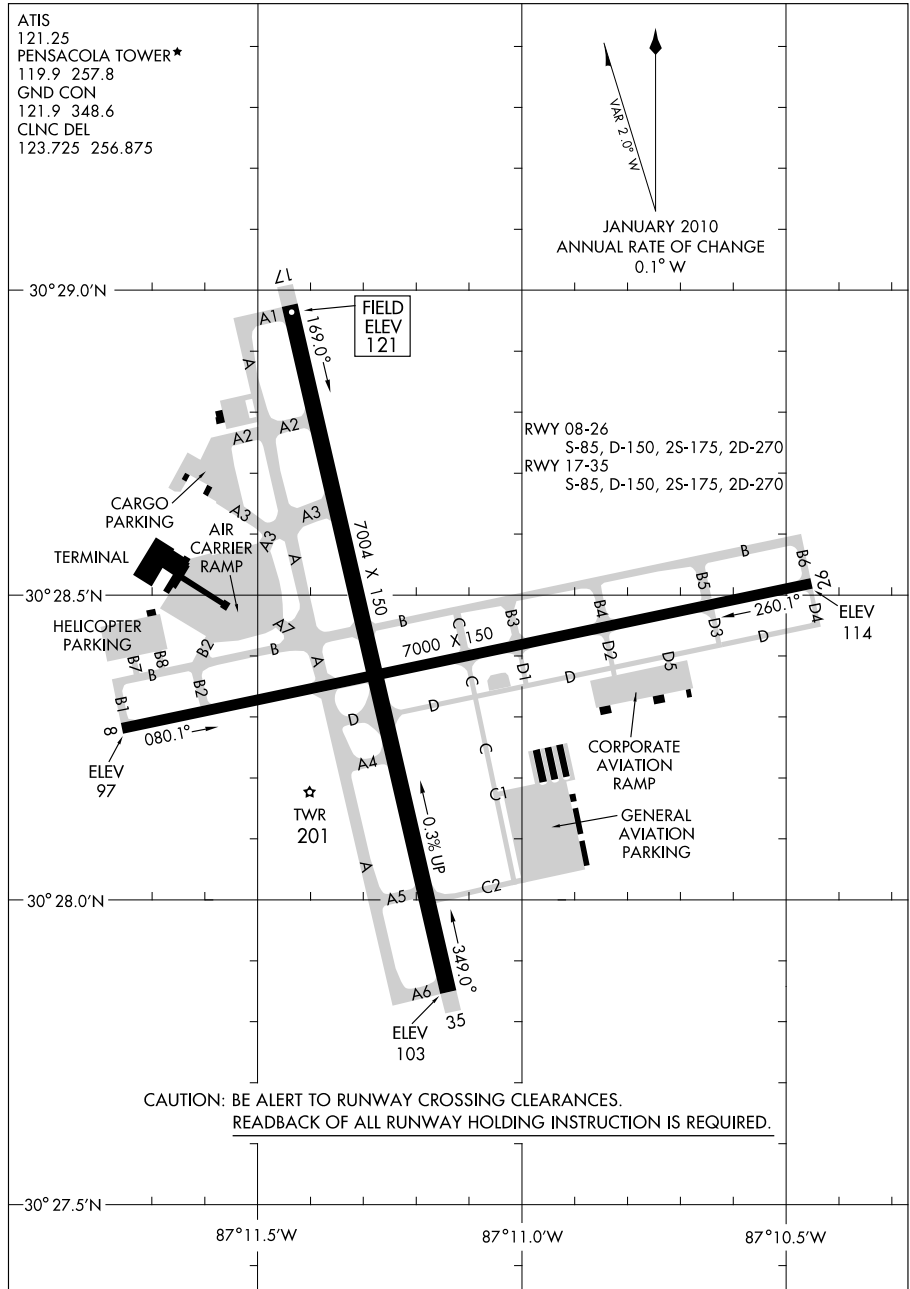
SE. 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

AL-318 (FAA)

PENSACOLA GULF COAST RGNL (PNS)  
PENSACOLA, FLORIDA



# AIRPORT DIAGRAM

10266

PENSACOLA, FLORIDA  
PENSACOLA GULF COAST RGNL (PNS)

SE. 23 SEP 2010 to 18 NOV 2010

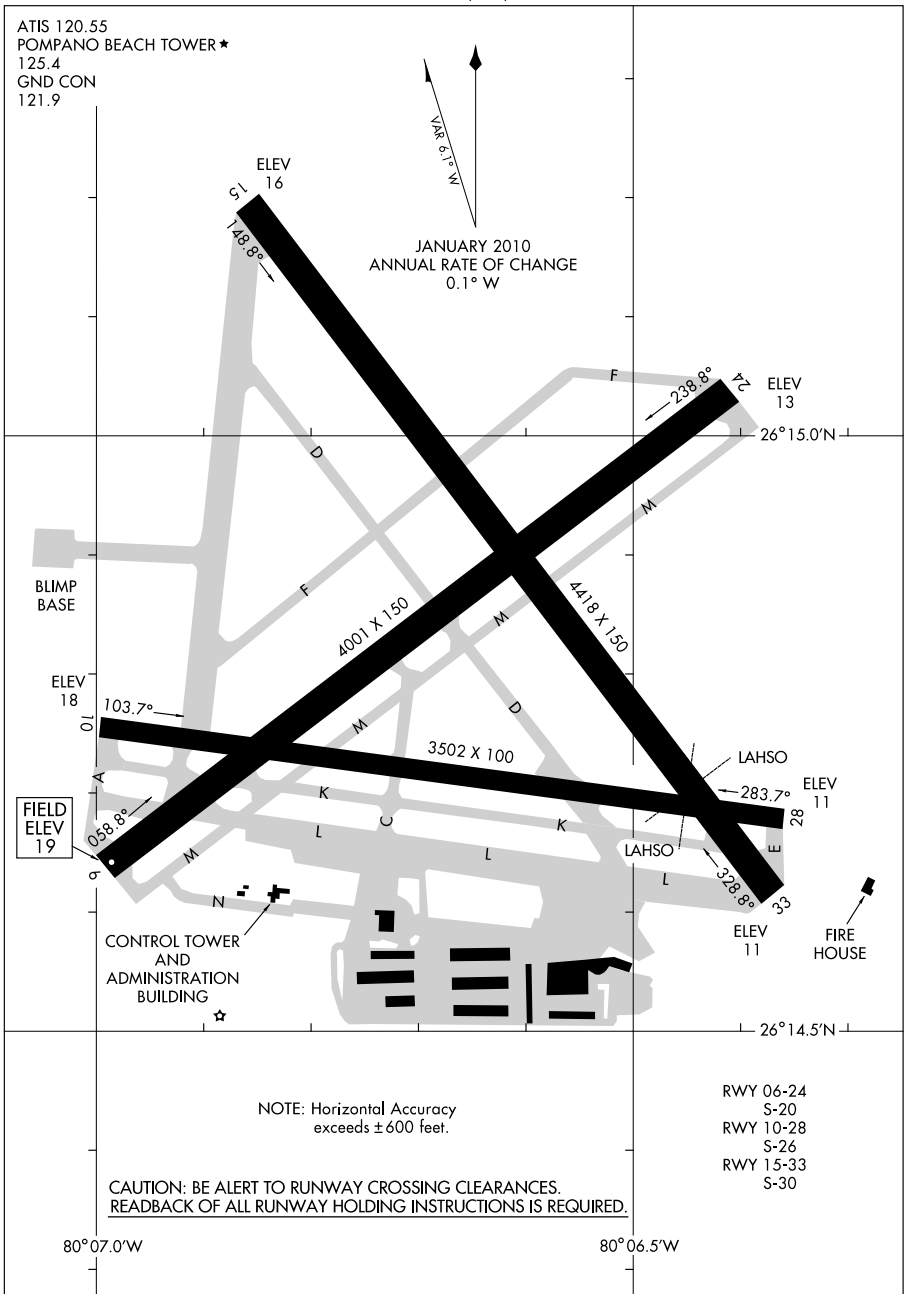


# AIRPORT DIAGRAM

POMPANO BEACH AIRPARK (PMP)  
POMPANO BEACH, FLORIDA

AL-5972 (FAA)

ATIS 120.55  
POMPANO BEACH TOWER ★  
125.4  
GND CON  
121.9



# AIRPORT DIAGRAM

POMPANO BEACH, FLORIDA  
POMPANO BEACH AIRPARK (PMP)

10210

SE. 23 SEP 2010 to 18 NOV 2010

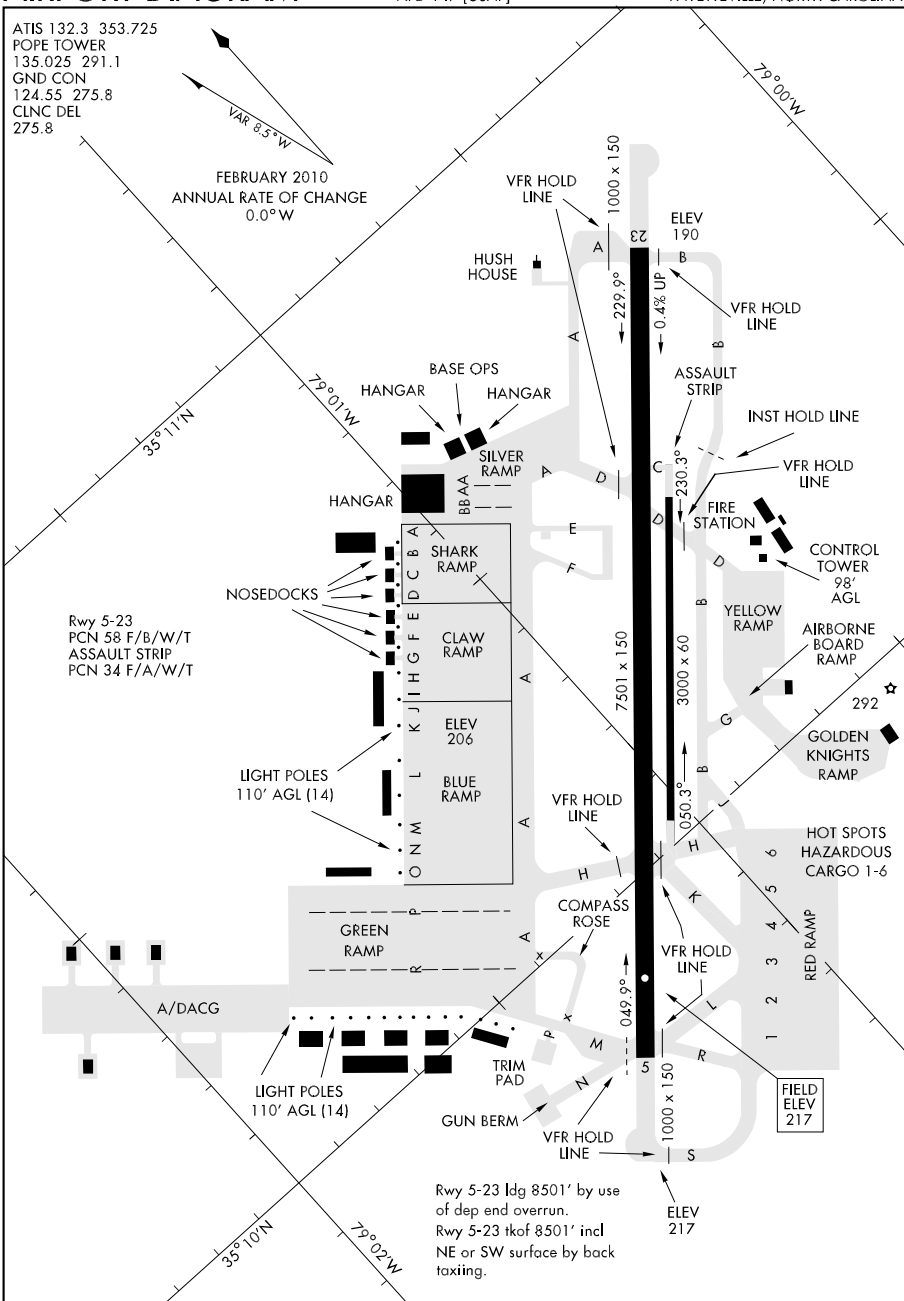
10042

## AIRPORT DIAGRAM

AFD-147 [USAF]

POPE AFB (KPOB)

FAYETTEVILLE, NORTH CAROLINA



## AIRPORT DIAGRAM

FAYETTEVILLE, NORTH CAROLINA

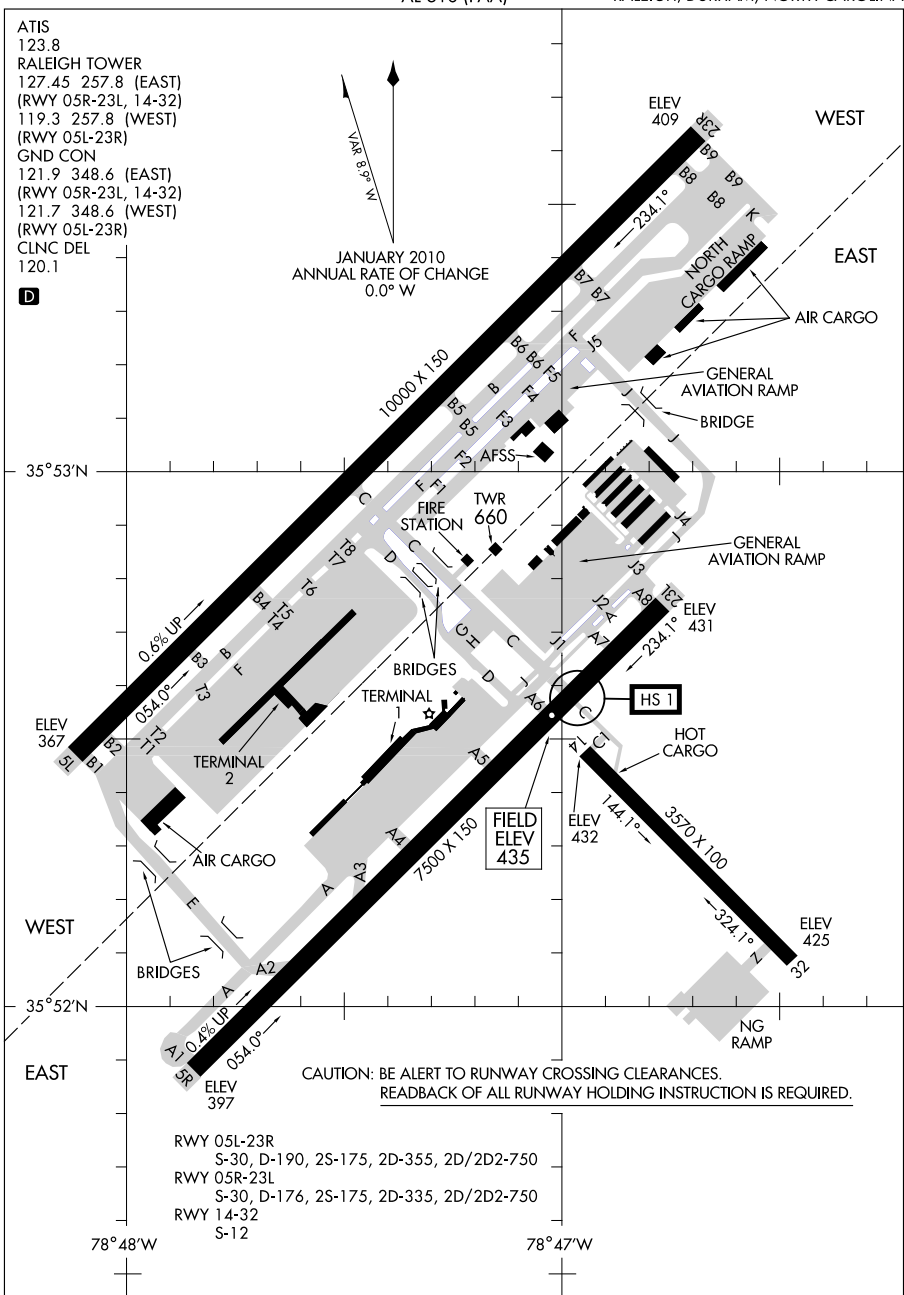
POPE AFB (KPOB)

SE. 23 SEP 2010 to 18 NOV 2010

## AIRPORT DIAGRAM

RALEIGH-DURHAM INTL (RDU)

RALEIGH/DURHAM, NORTH CAROLINA

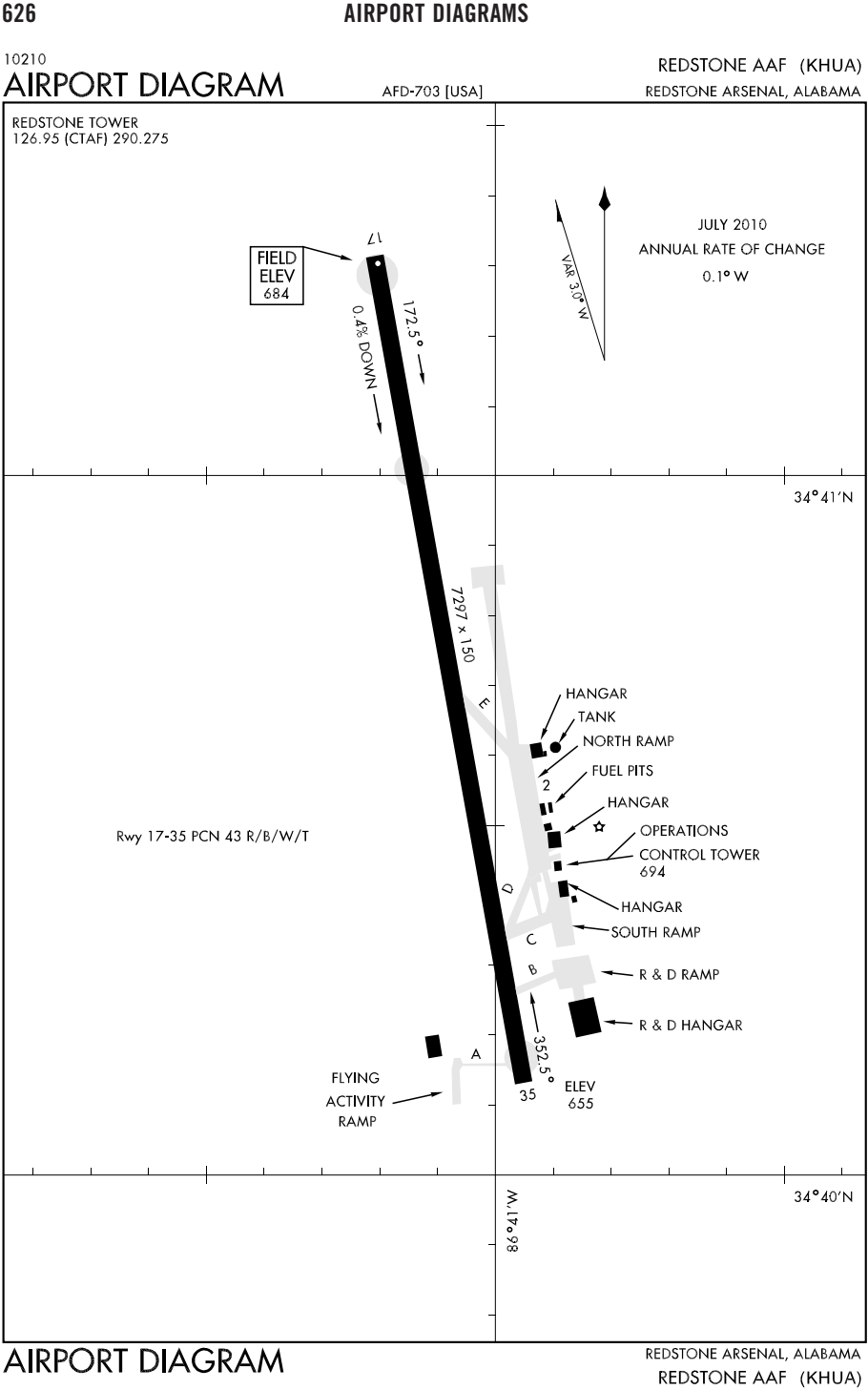


## AIRPORT DIAGRAM

RALEIGH/DURHAM, NORTH CAROLINA

RALEIGH-DURHAM INTL (RDU)

SE. 23 SEP 2010 to 18 NOV 2010

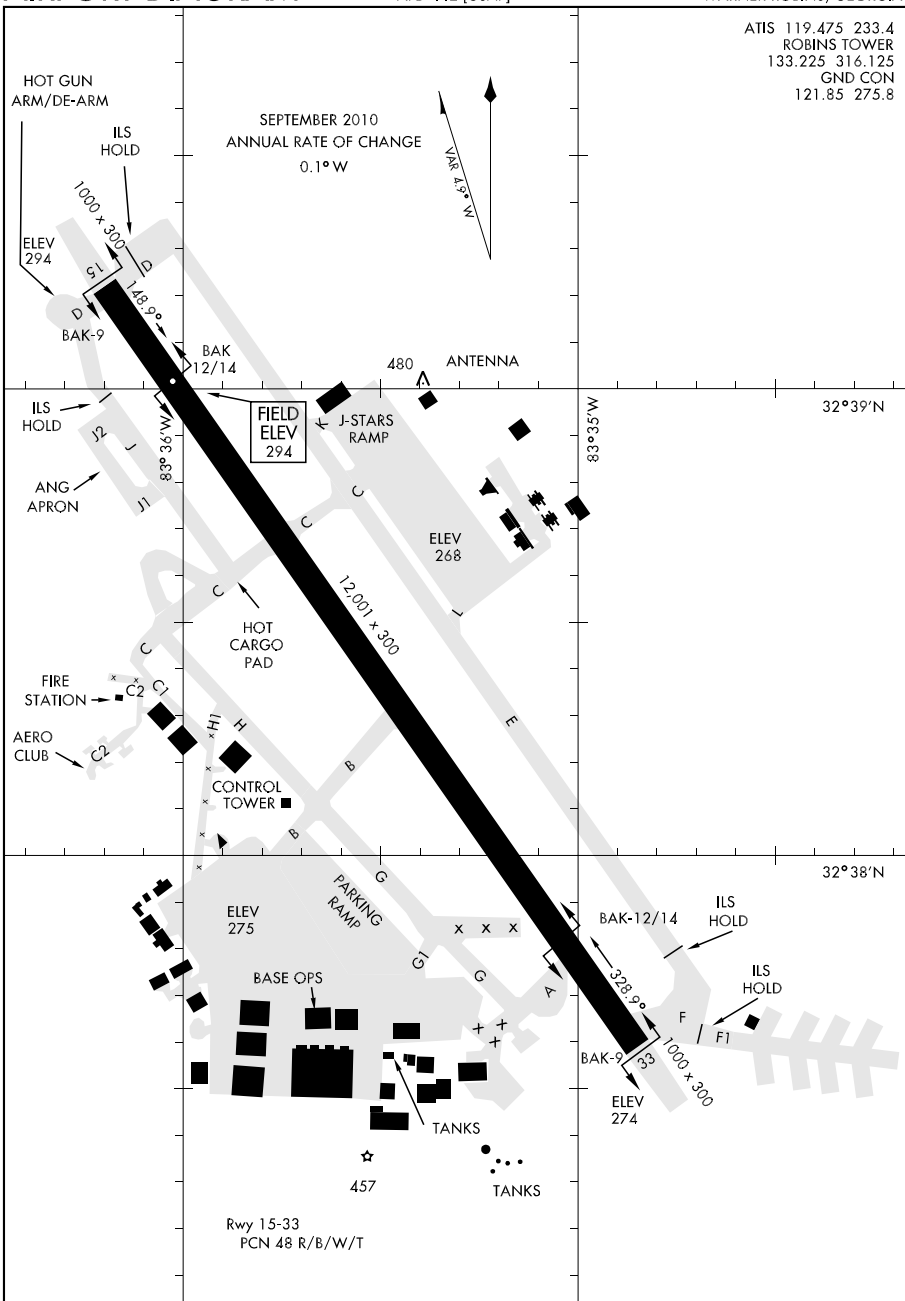


10266

# AIRPORT DIAGRAM

AFD-442 [USAF]

ROBINS AFB (KWRB)  
WARNER ROBINS, GEORGIA



# AIRPORT DIAGRAM

WARNER ROBINS, GEORGIA  
ROBINS AFB (KWRB)

SE. 23 SEP 2010 to 18 NOV 2010

10210

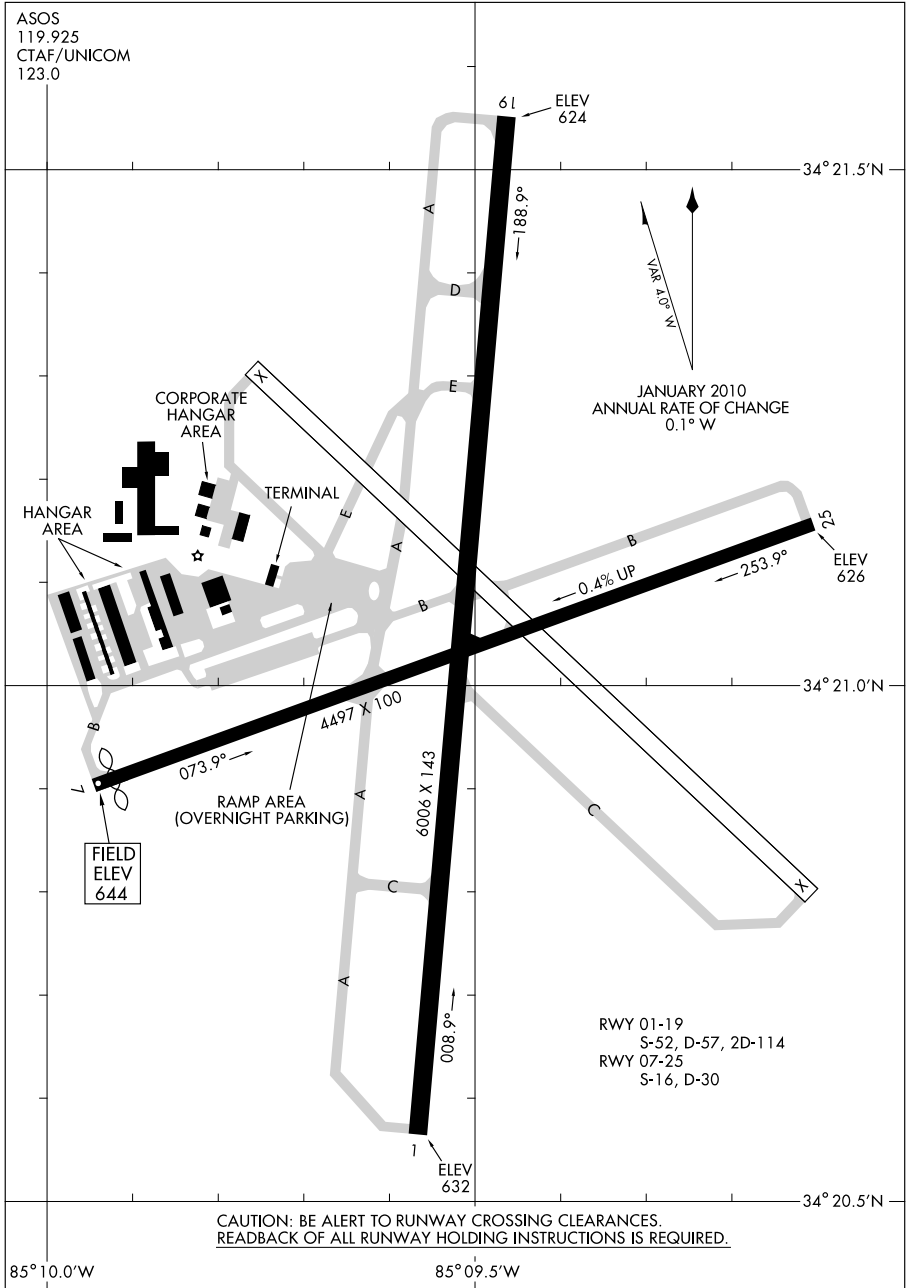
# AIRPORT DIAGRAM

AL-855 (FAA)

ROME/ RICHARD B. RUSSELL (RMG)

ROME, GEORGIA

ASOS  
119.925  
CTAF/UNICOM  
123.0



# AIRPORT DIAGRAM

10210

ROME, GEORGIA

ROME/ RICHARD B. RUSSELL (RMG)

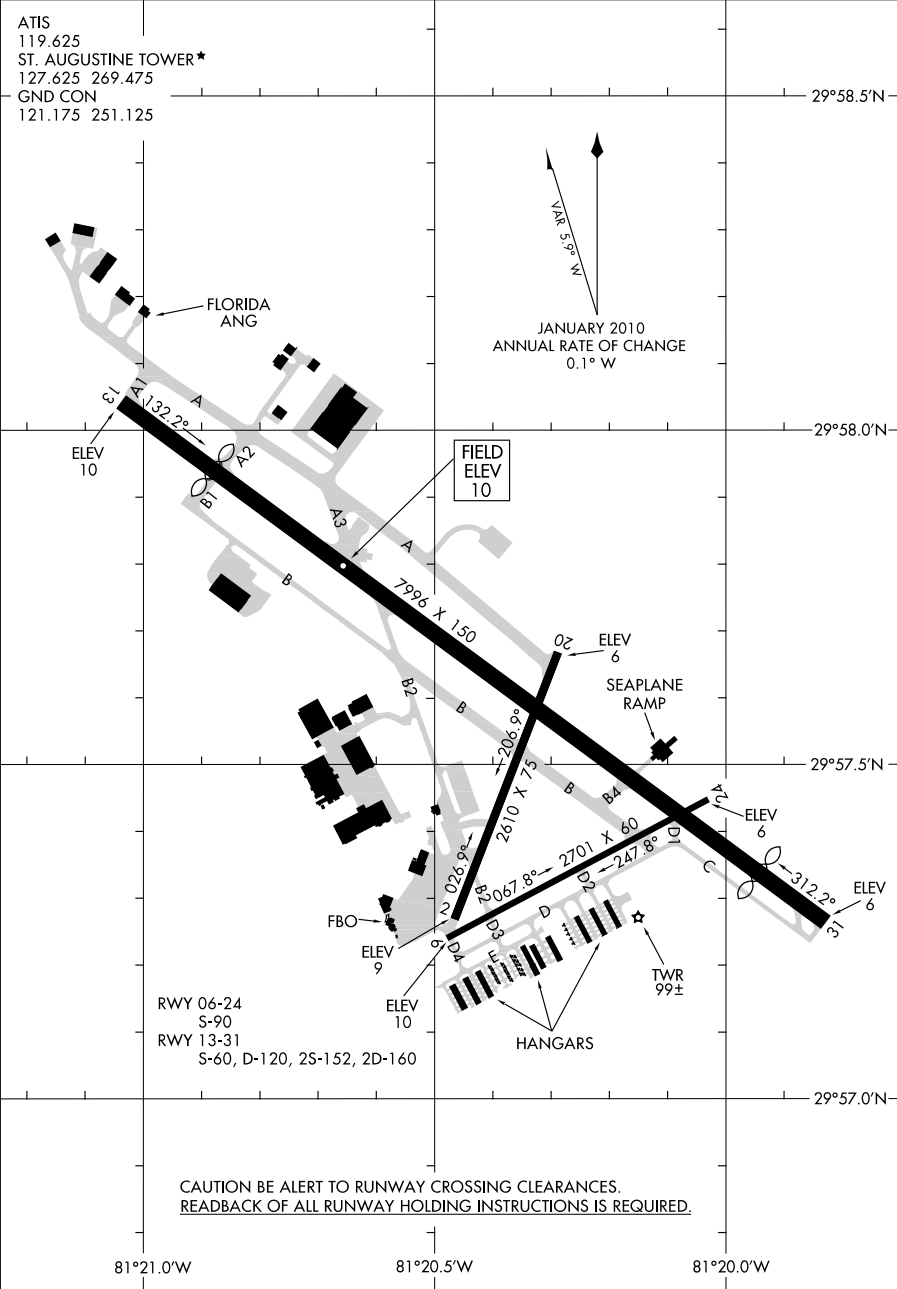
SE. 23 SEP 2010 to 18 NOV 2010



10210  
AIRPORT DIAGRAM

AL-692 (FAA)

ST. AUGUSTINE (SGJ)  
ST. AUGUSTINE, FLORIDA



AIRPORT DIAGRAM  
10210

ST. AUGUSTINE, FLORIDA  
ST. AUGUSTINE (SGJ)

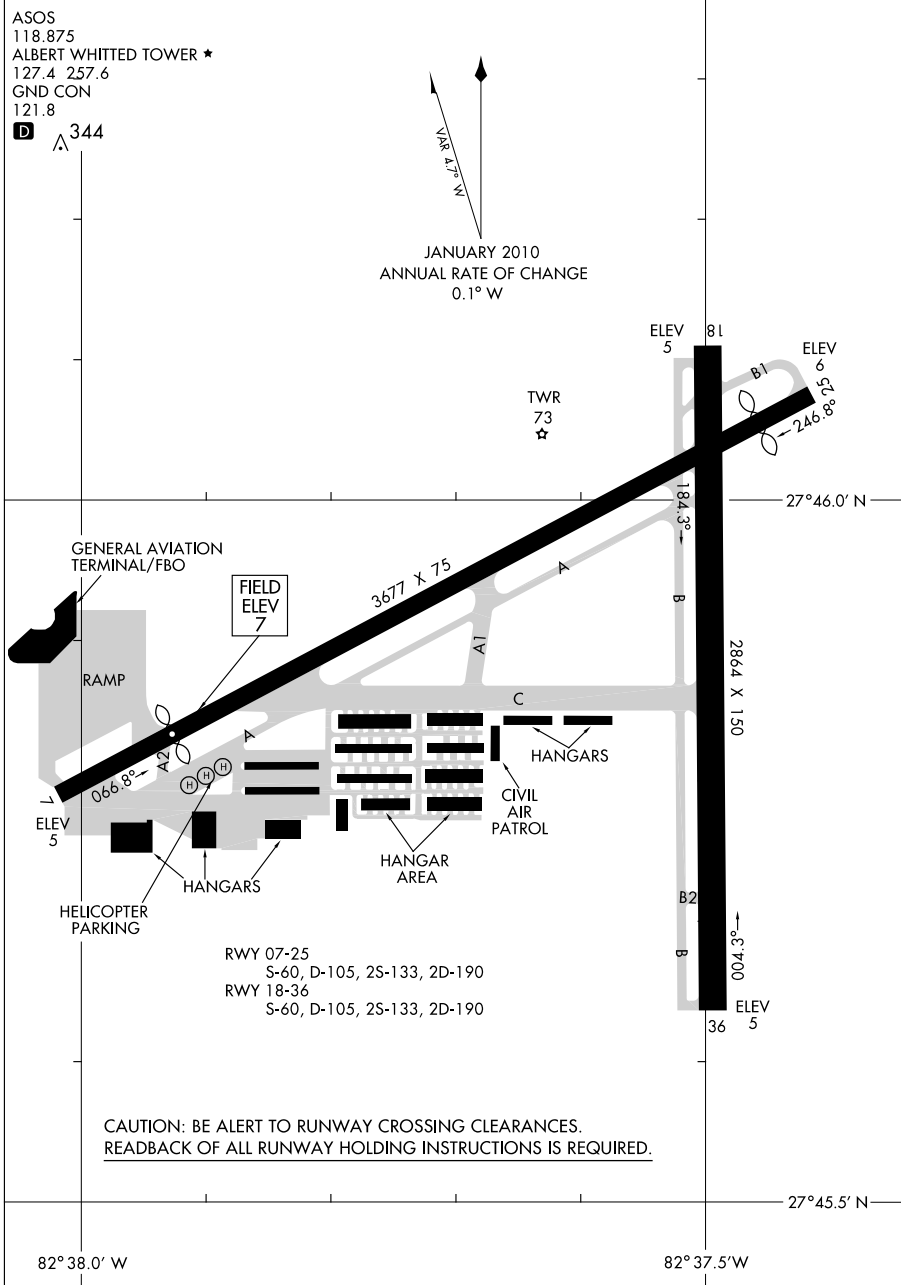
SE. 23 SEP 2010 to 18 NOV 2010



10266  
AIRPORT DIAGRAM

AL-613 (FAA)

ST. PETERSBURG/ALBERT WHITTET (SPG)  
ST. PETERSBURG, FLORIDA



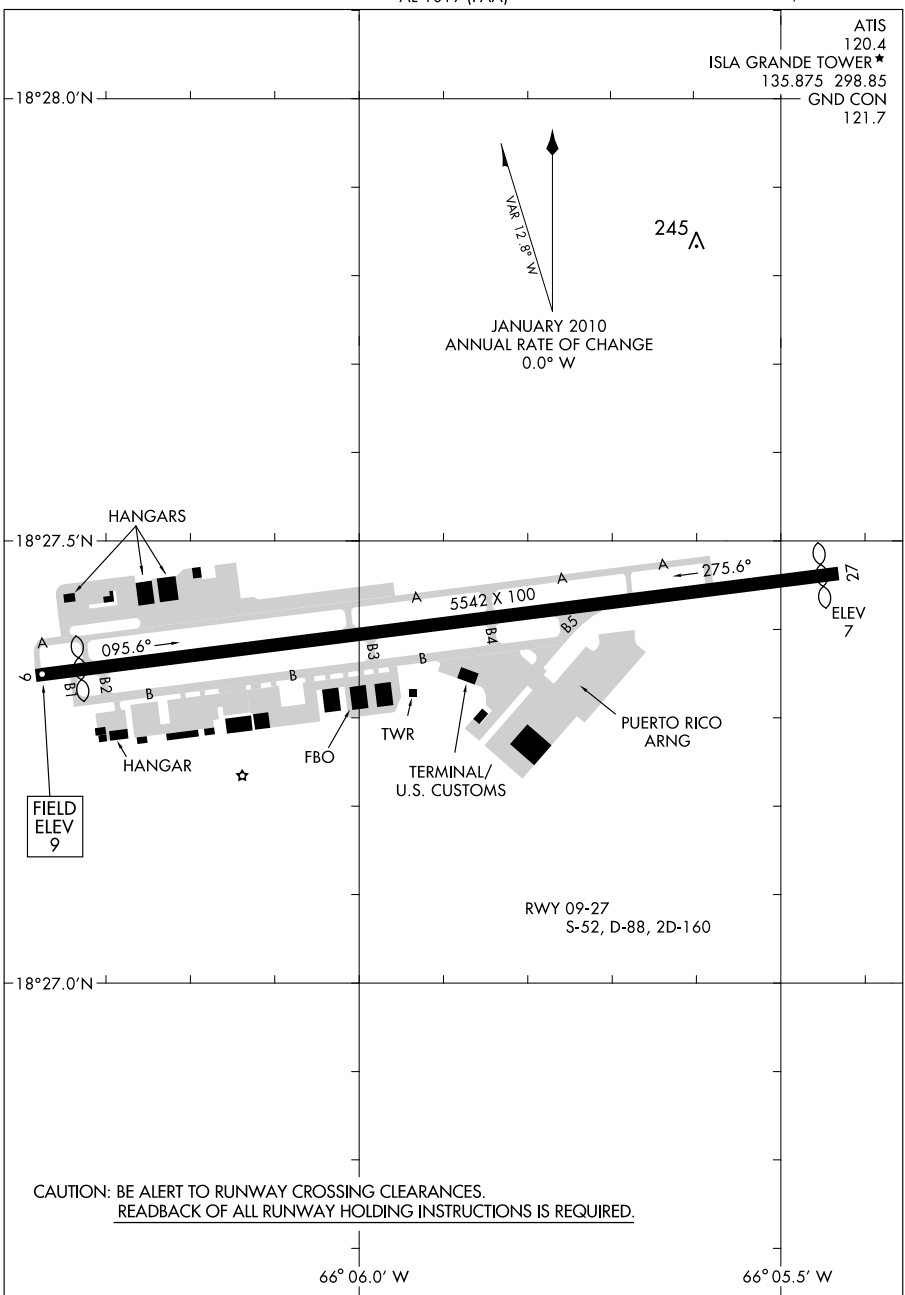
AIRPORT DIAGRAM

ST. PETERSBURG, FLORIDA  
ST. PETERSBURG/ALBERT WHITTET (SPG)



10266  
AIRPORT DIAGRAM

SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)  
AL-1019 (FAA) SAN JUAN, PUERTO RICO



10266  
AIRPORT DIAGRAM

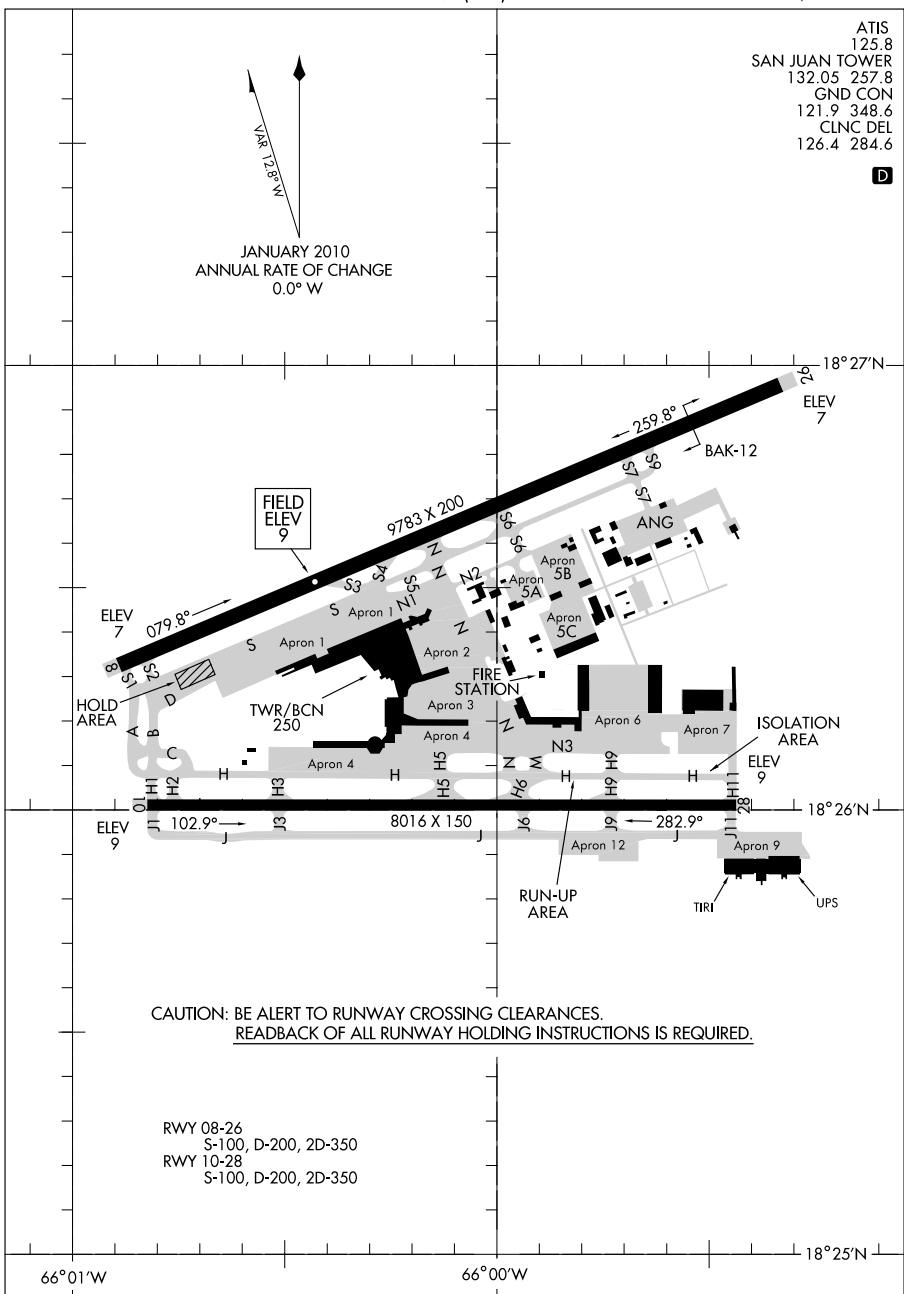
SAN JUAN, PUERTO RICO  
SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

10210

## AIRPORT DIAGRAM

SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)  
AL-784 (FAA)

SAN JUAN, PUERTO RICO



## AIRPORT DIAGRAM

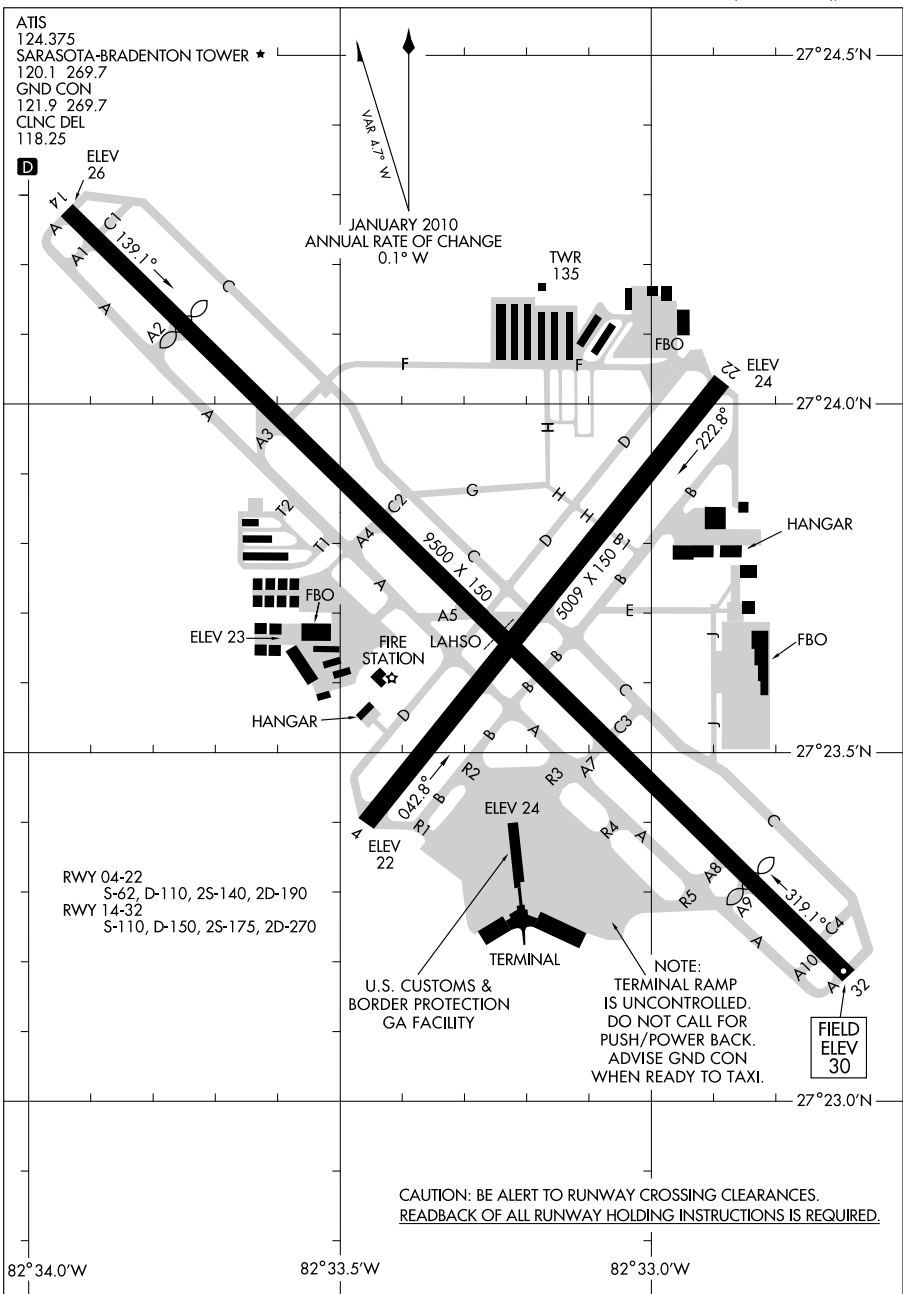
10210

SAN JUAN, PUERTO RICO  
SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)

SE. 23 SEP 2010 to 18 NOV 2010

10210

## AIRPORT DIAGRAM

SARASOTA/BRADENTON INTL (SRQ)  
SARASOTA (BRADENTON), FLORIDA

## AIRPORT DIAGRAM

10210

SARASOTA (BRADENTON), FLORIDA  
SARASOTA/BRADENTON INTL (SRQ)

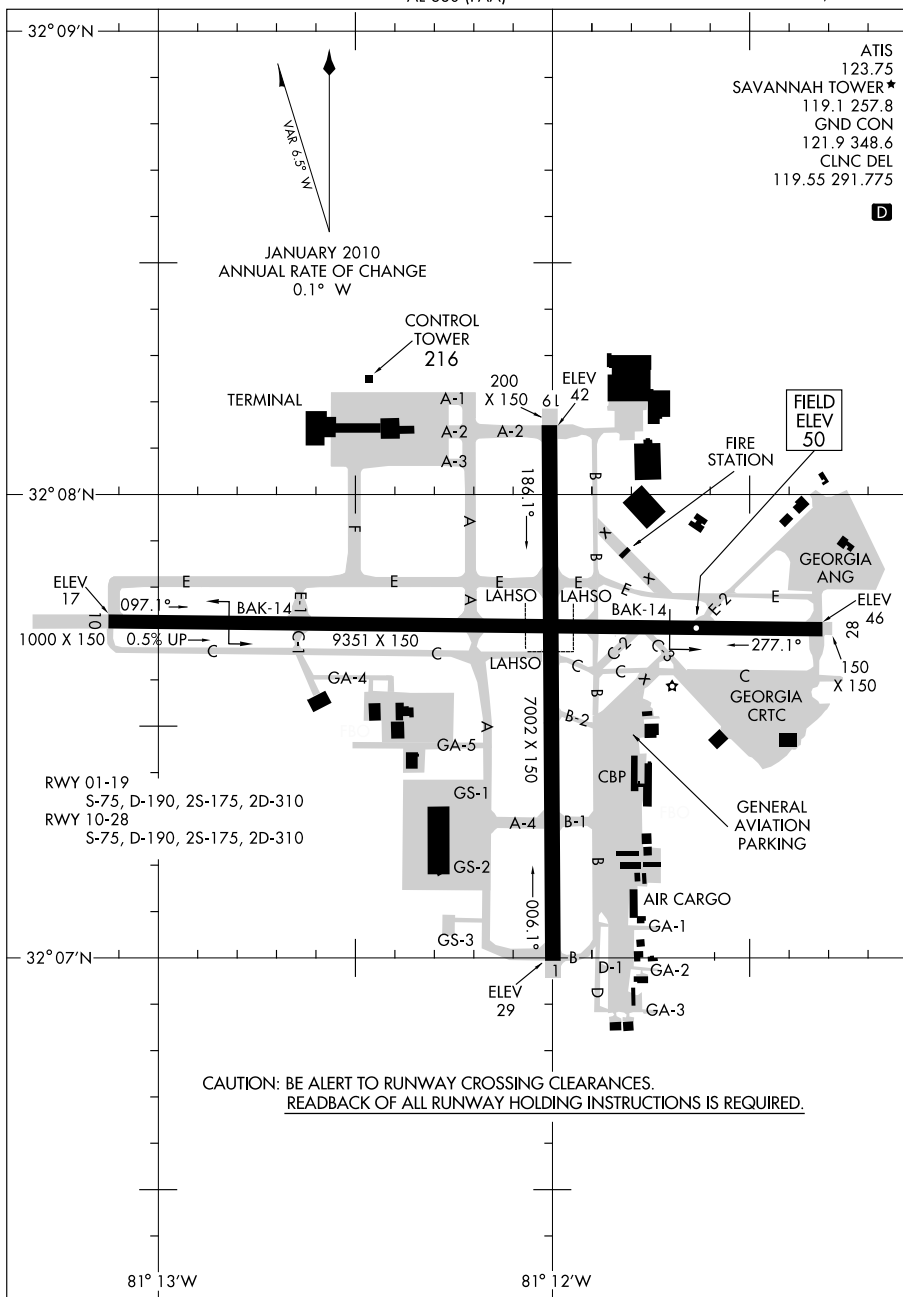
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-380 (FAA)

SAVANNAH/HILTON HEAD INTL (SAV)  
SAVANNAH, GEORGIA



# AIRPORT DIAGRAM

10210

SAVANNAH, GEORGIA  
SAVANNAH/HILTON HEAD INTL (SAV)

SE. 23 SEP 2010 to 18 NOV 2010

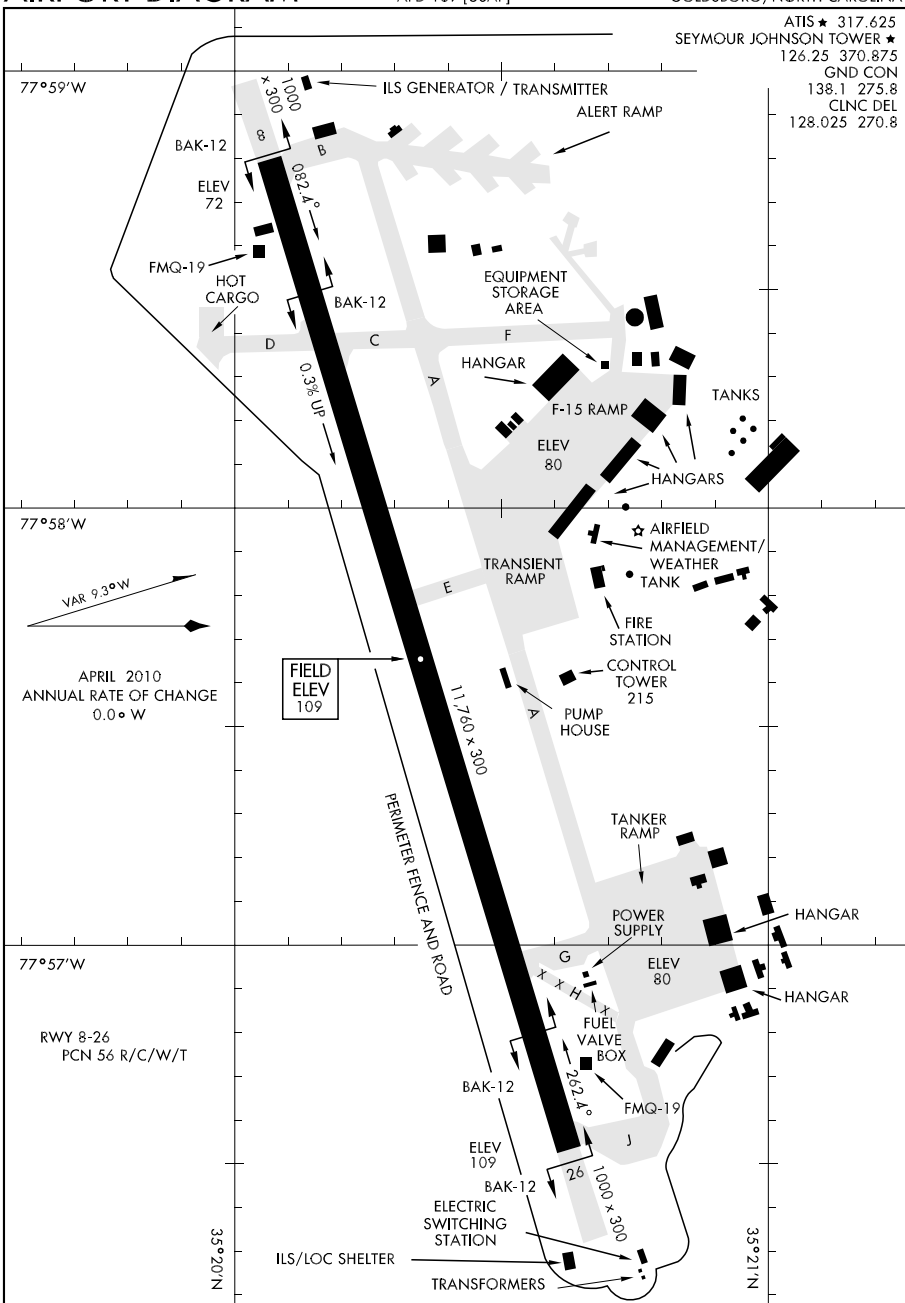
10098

## AIRPORT DIAGRAM

AFD-169 [USAF]

SEYMOUR JOHNSON AFB (KGSB)

GOLDSBORO, NORTH CAROLINA

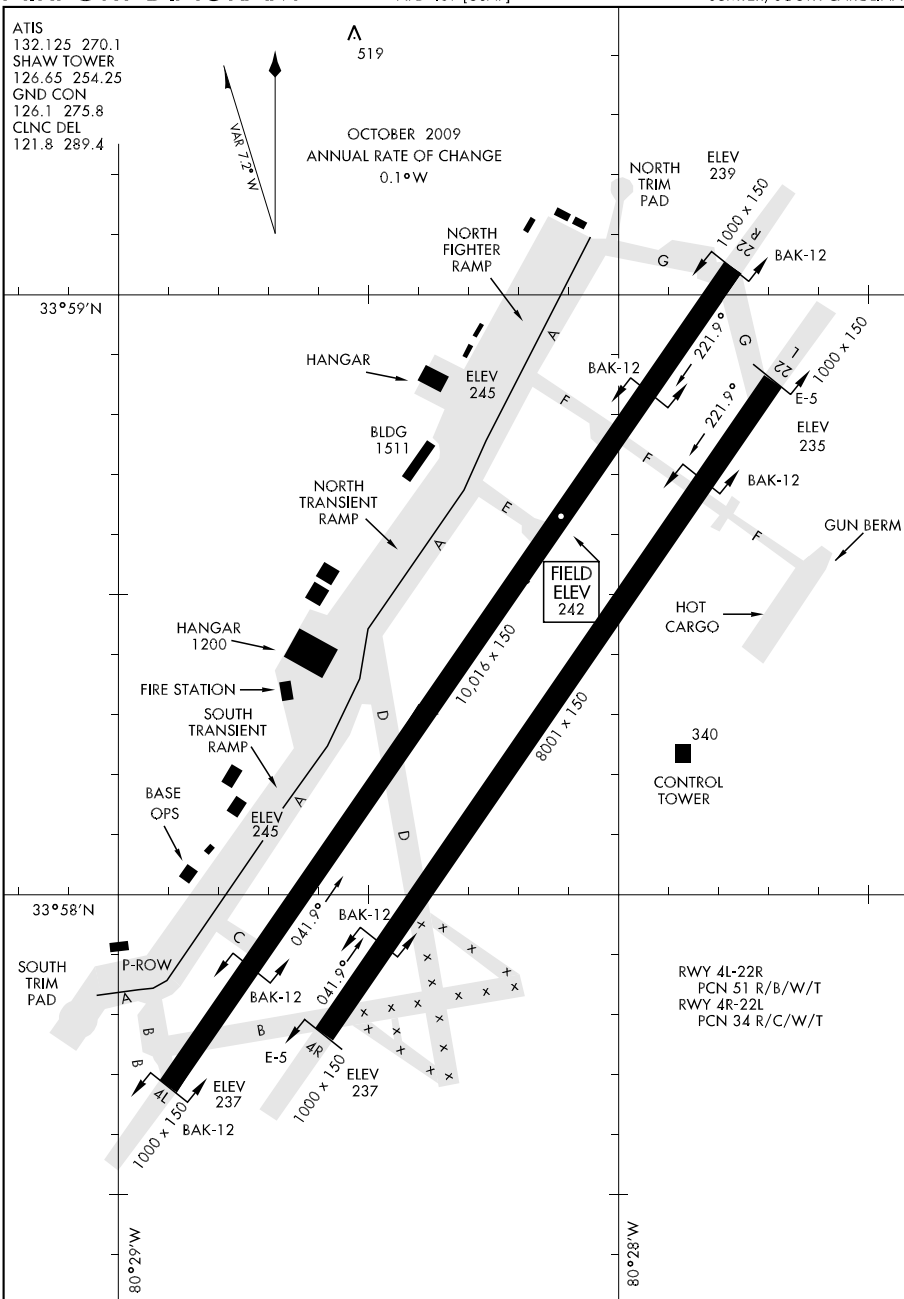


## AIRPORT DIAGRAM

GOLDSBORO, NORTH CAROLINA

SEYMOUR JOHNSON AFB (KGSB)

SE. 23 SEP 2010 to 18 NOV 2010



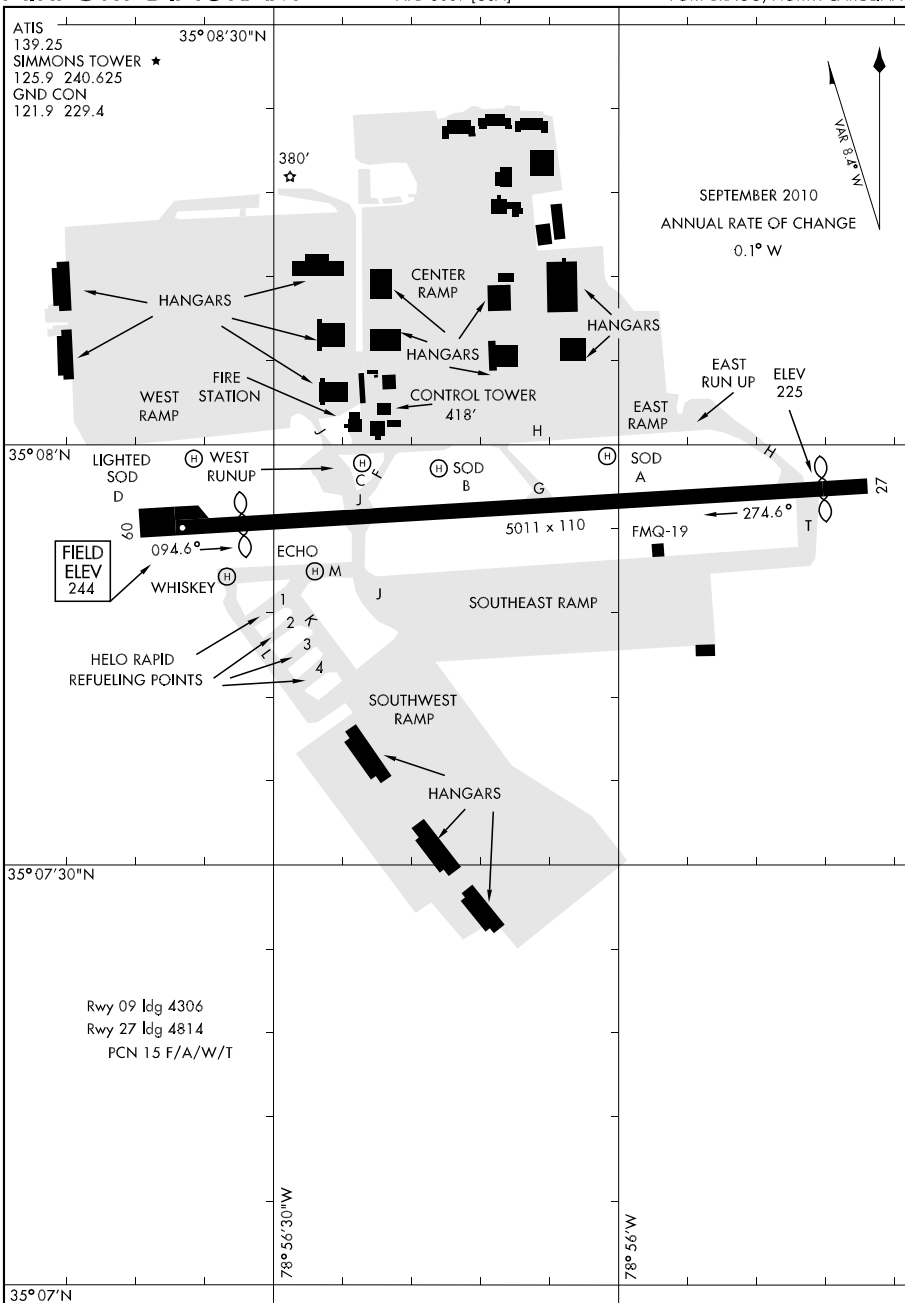


10266

## AIRPORT DIAGRAM

AFD-5069 [USA]

SIMMONS AAF (KFBG)  
FORT BRAGG, NORTH CAROLINA



## AIRPORT DIAGRAM

FORT BRAGG, NORTH CAROLINA  
SIMMONS AAF (KFBG)

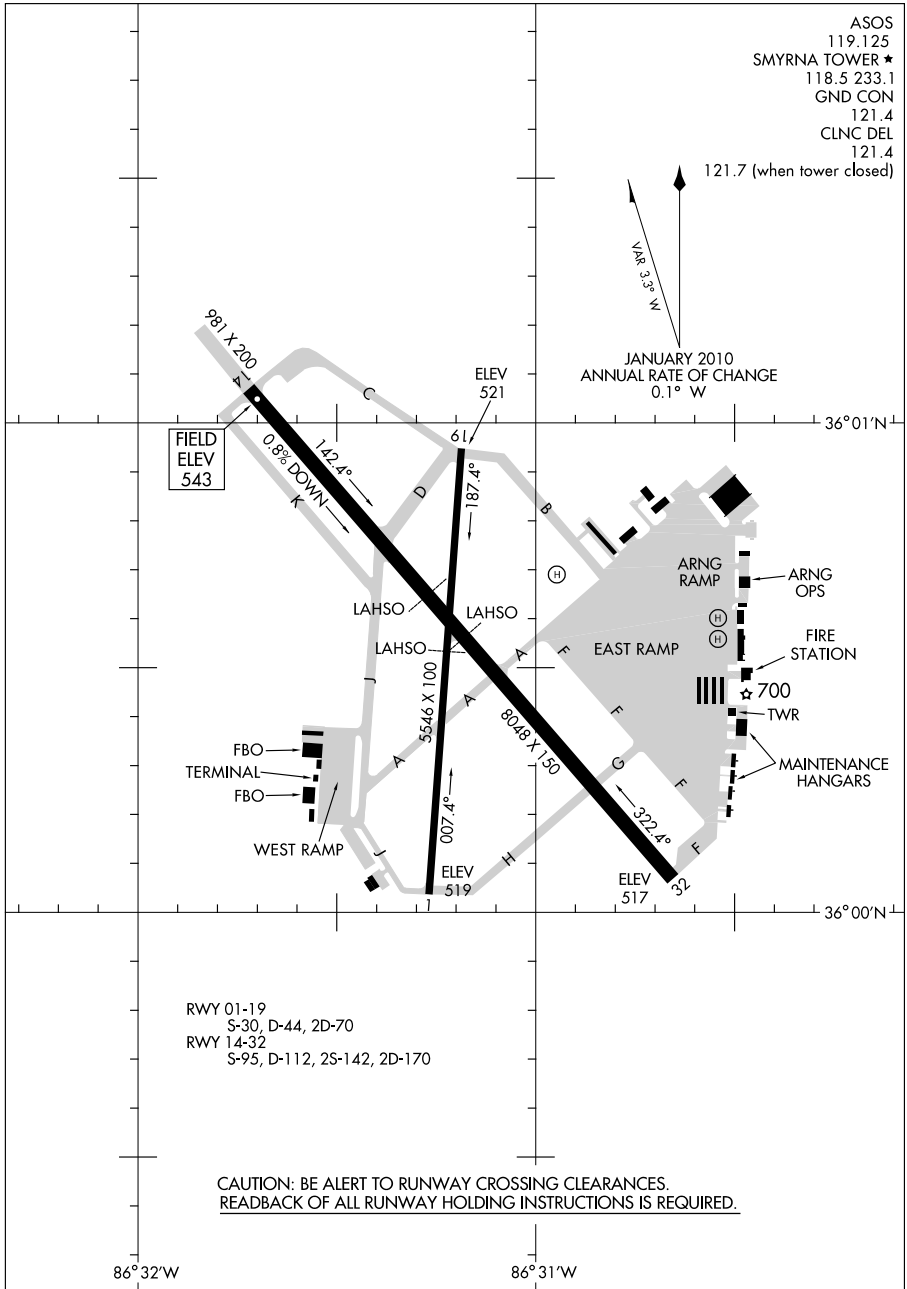
SE. 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-895 (FAA)

SMYRNA (MQY)  
SMYRNA, TENNESSEE



# AIRPORT DIAGRAM

10210

SMYRNA, TENNESSEE  
SMYRNA (MQY)

SE. 23 SEP 2010 to 18 NOV 2010

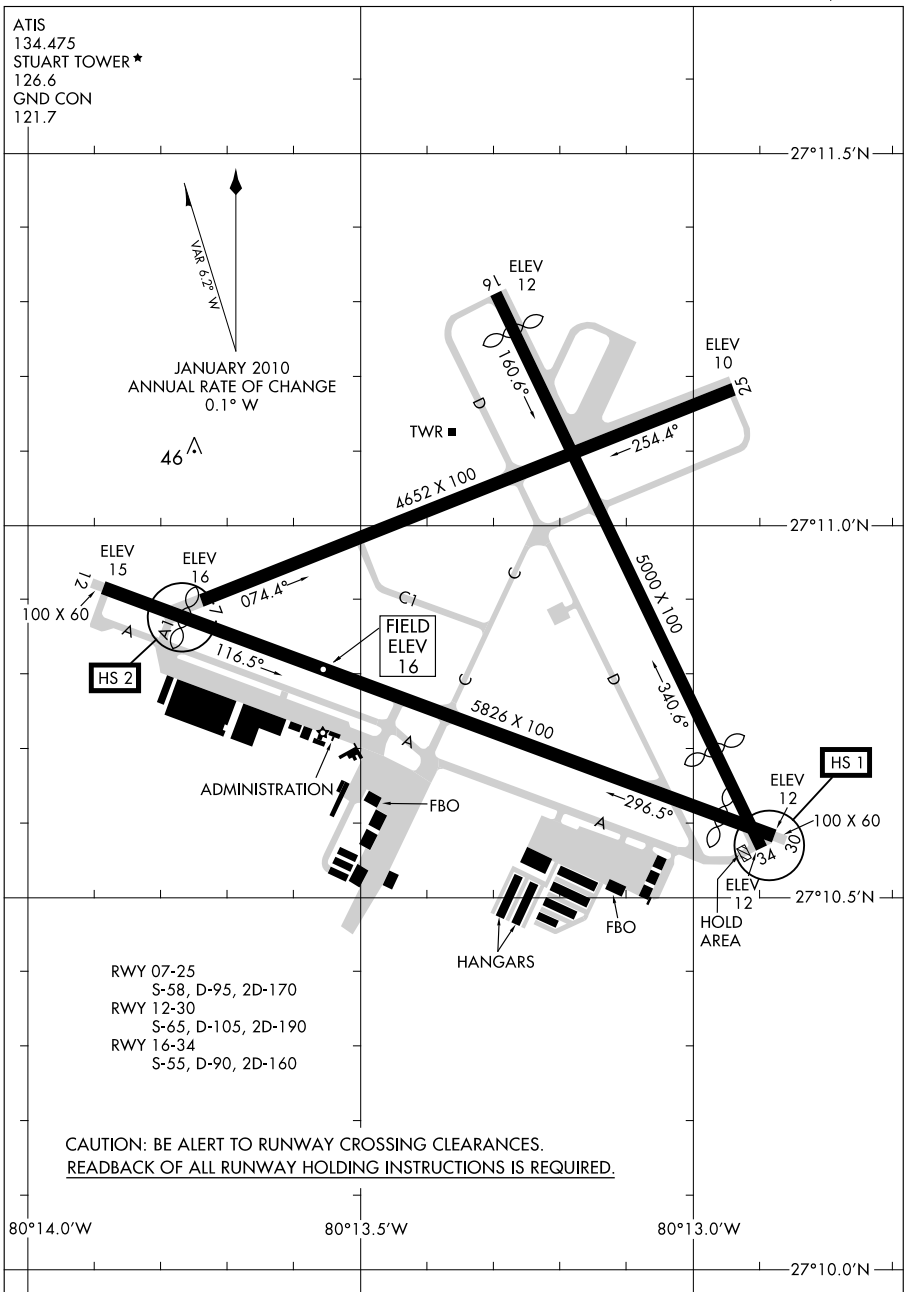
10266

# AIRPORT DIAGRAM

AL-9217 (FAA)

STUART/WITHAM FIELD (SUA)

STUART, FLORIDA



# AIRPORT DIAGRAM

10266

STUART, FLORIDA  
STUART/WITHAM FIELD (SUA)

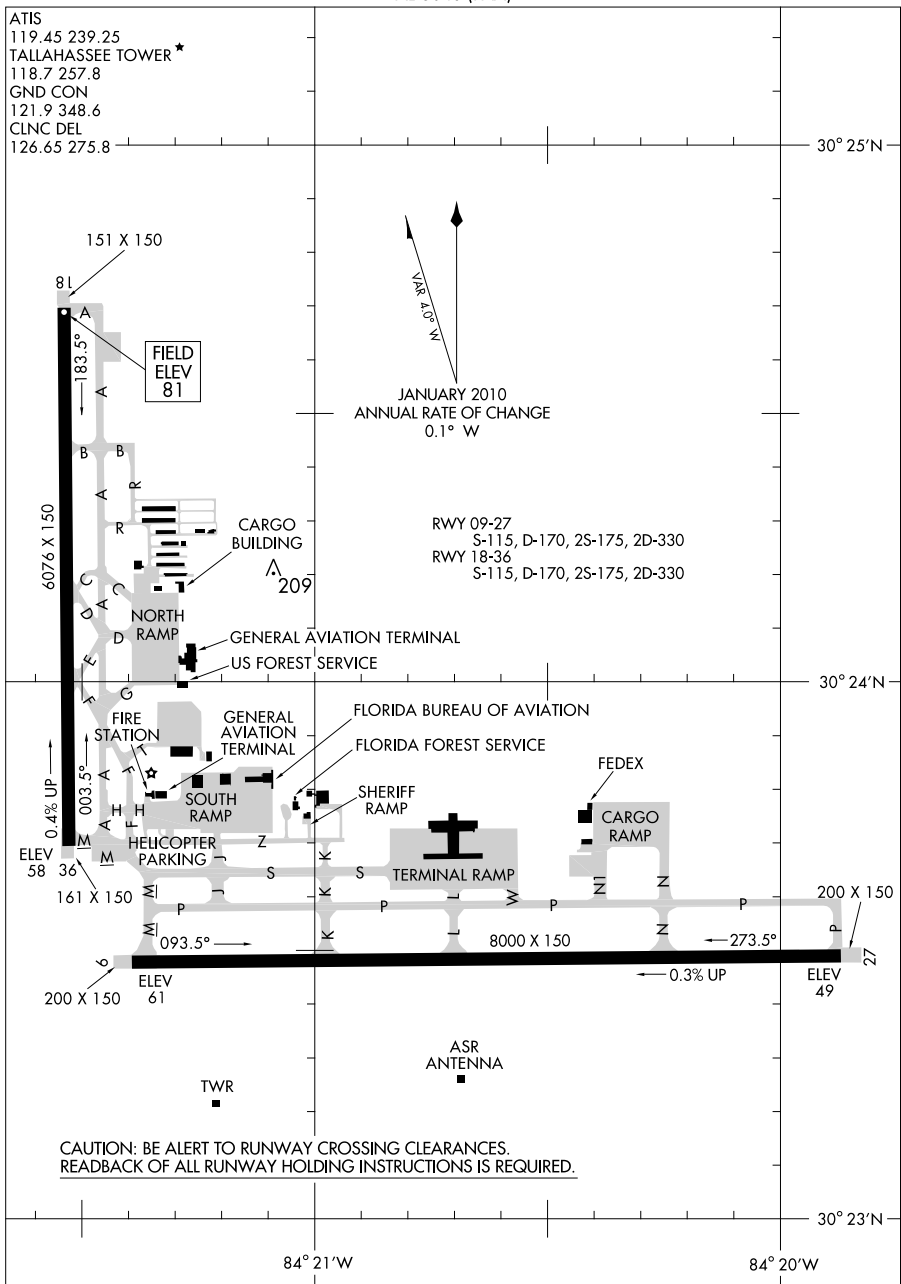
SE. 23 SEP 2010 to 18 NOV 2010

10266

# AIRPORT DIAGRAM

AL-5048 (FAA)

TALLAHASSEE RGNL (TLH)  
TALLAHASSEE, FLORIDA



# AIRPORT DIAGRAM

TALLAHASSEE, FLORIDA  
TALLAHASSEE RGNL (TLH)

10266

SE. 23 SEP 2010 to 18 NOV 2010

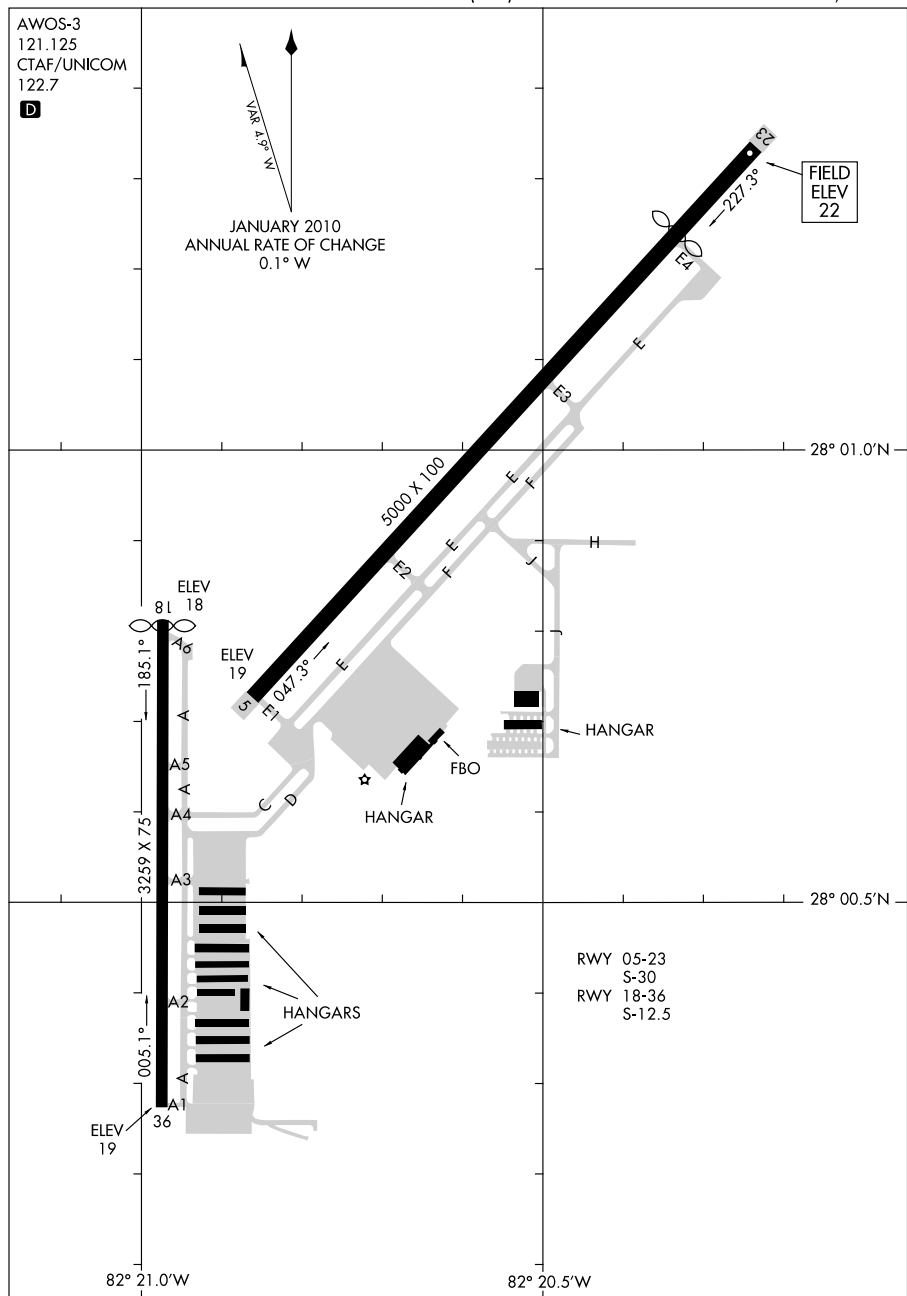
10210

# AIRPORT DIAGRAM

AL-9241 (FAA)

TAMPA EXECUTIVE (VDF)

TAMPA, FLORIDA



# AIRPORT DIAGRAM

10210

TAMPA, FLORIDA

TAMPA EXECUTIVE (VDF)

SE. 23 SEP 2010 to 18 NOV 2010

## AIRPORT DIAGRAM

TAMPA, FLORIDA

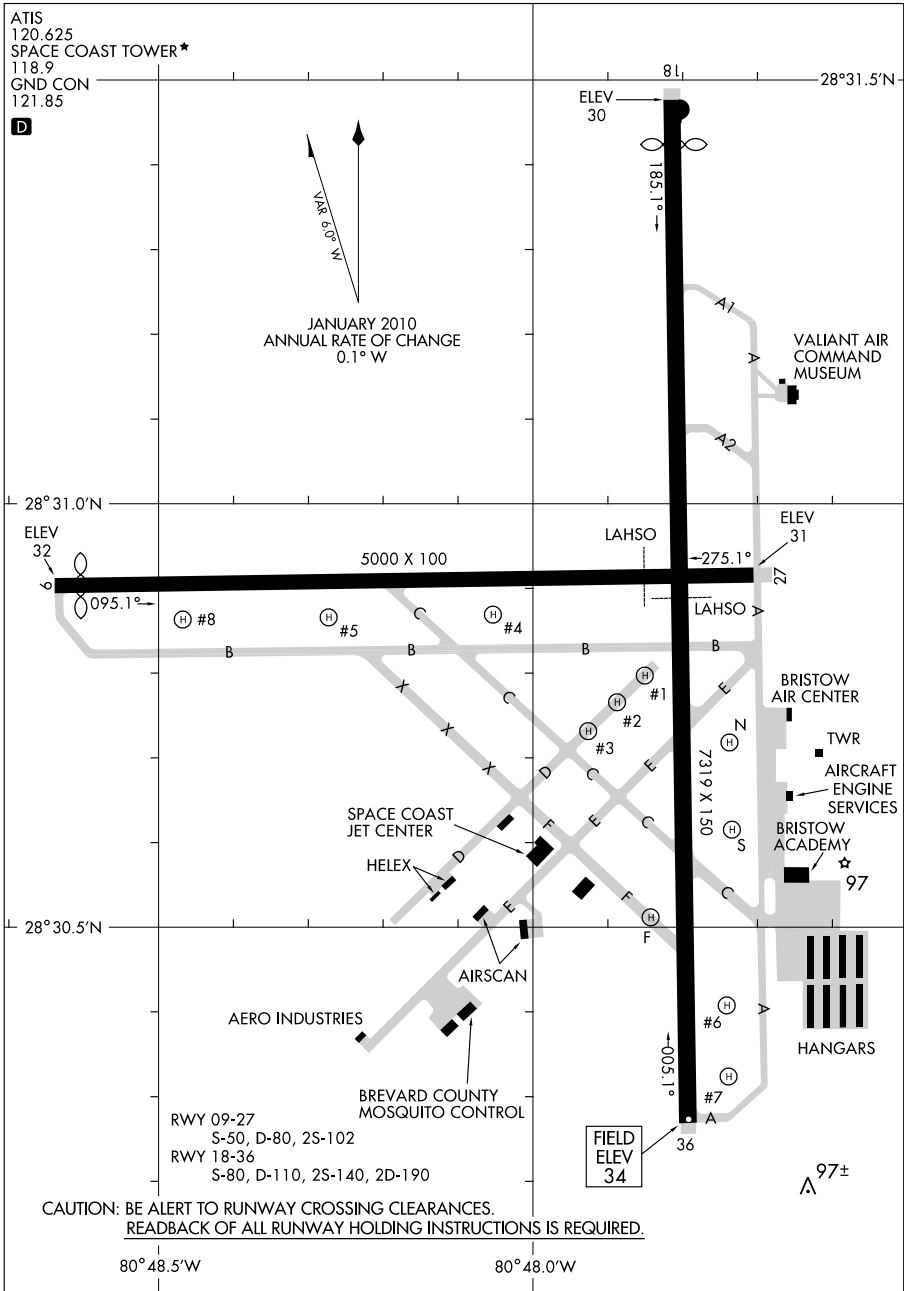
TAMPA, FLORIDA  
TAMPA INTL (TPA)

SE, 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

AL-5760 (FAA)

TITUSVILLE/SPACE COAST RGNL (TIX)  
TITUSVILLE, FLORIDA



# AIRPORT DIAGRAM

TITUSVILLE, FLORIDA  
TITUSVILLE/ SPACE COAST RGNL (TIX)

10210

SE. 23 SEP 2010 to 18 NOV 2010

10266

## AIRPORT DIAGRAM

AL-487 (FAA)

TUSCALOOSA RGNL (TCL)

TUSCALOOSA, ALABAMA

ASOS  
132.825  
TUSCALOOSA TOWER\*  
126.3 256.7  
GND CON  
121.8 257.95

33° 14.0'N

△  
258±

ELEV  
167

FIELD  
ELEV  
170

VAR 2.1° W  
JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.1° W

TWR  
FIRE STATION  
TERMINAL

HS 1

ELEV  
165ELEV  
164

FBO

33° 13.0'N

ELEV  
153

RWY 04-22

S-90, D-133, 2S-169, 2D-200

RWY 11-29

S-36, D-53, 2D-93

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

87° 37.0'W

87° 36.0'W

## AIRPORT DIAGRAM

10266

TUSCALOOSA, ALABAMA

TUSCALOOSA RGNL (TCL)

SE. 23 SEP 2010 to 18 NOV 2010

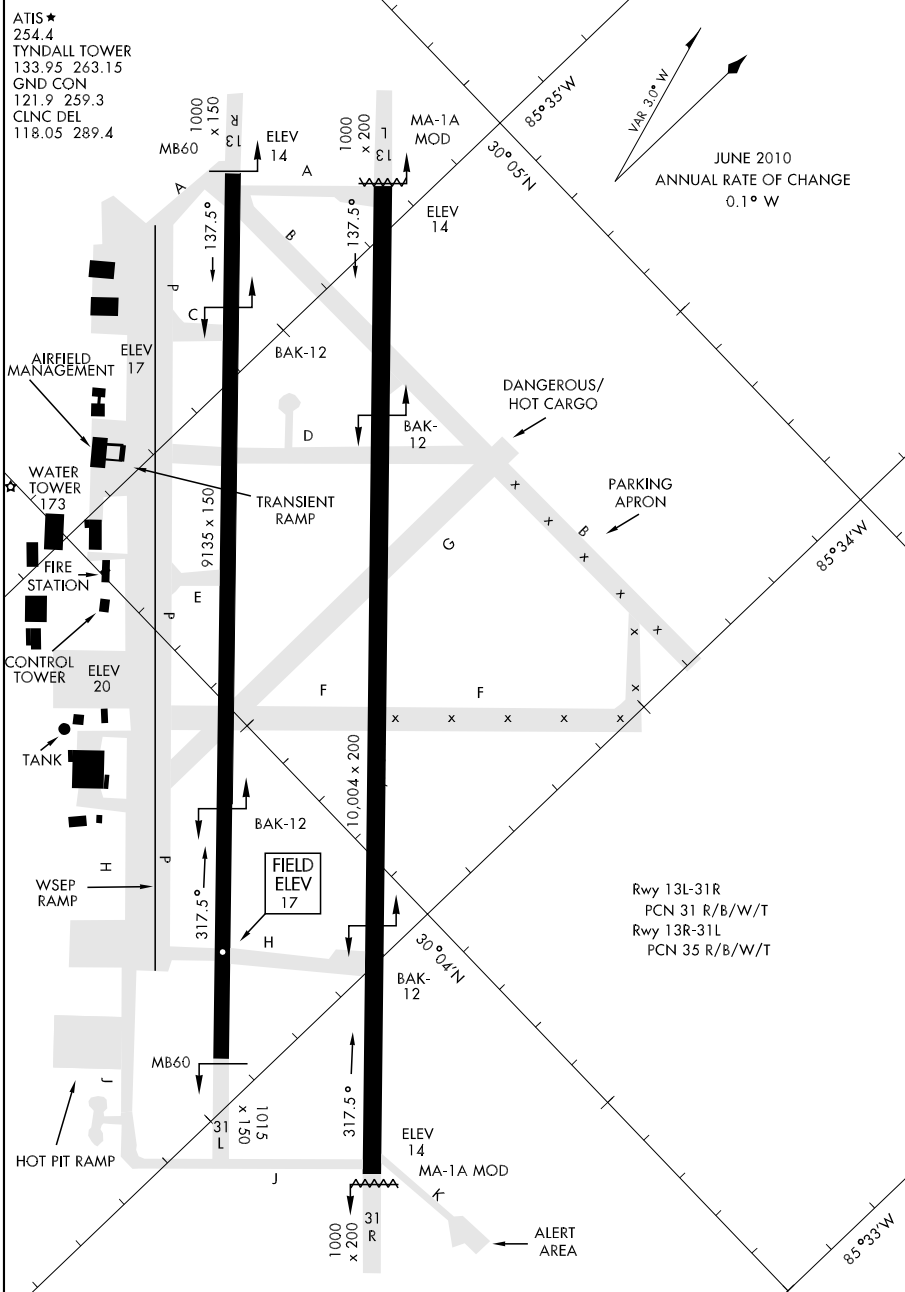


10154

## AIRPORT DIAGRAM

TYNDALL AFB (KPM)

PANAMA CITY, FLORIDA



## AIRPORT DIAGRAM

PANAMA CITY, FLORIDA

TYNDALL AFB (KPM)

SE. 23 SEP 2010 to 18 NOV 2010

10210

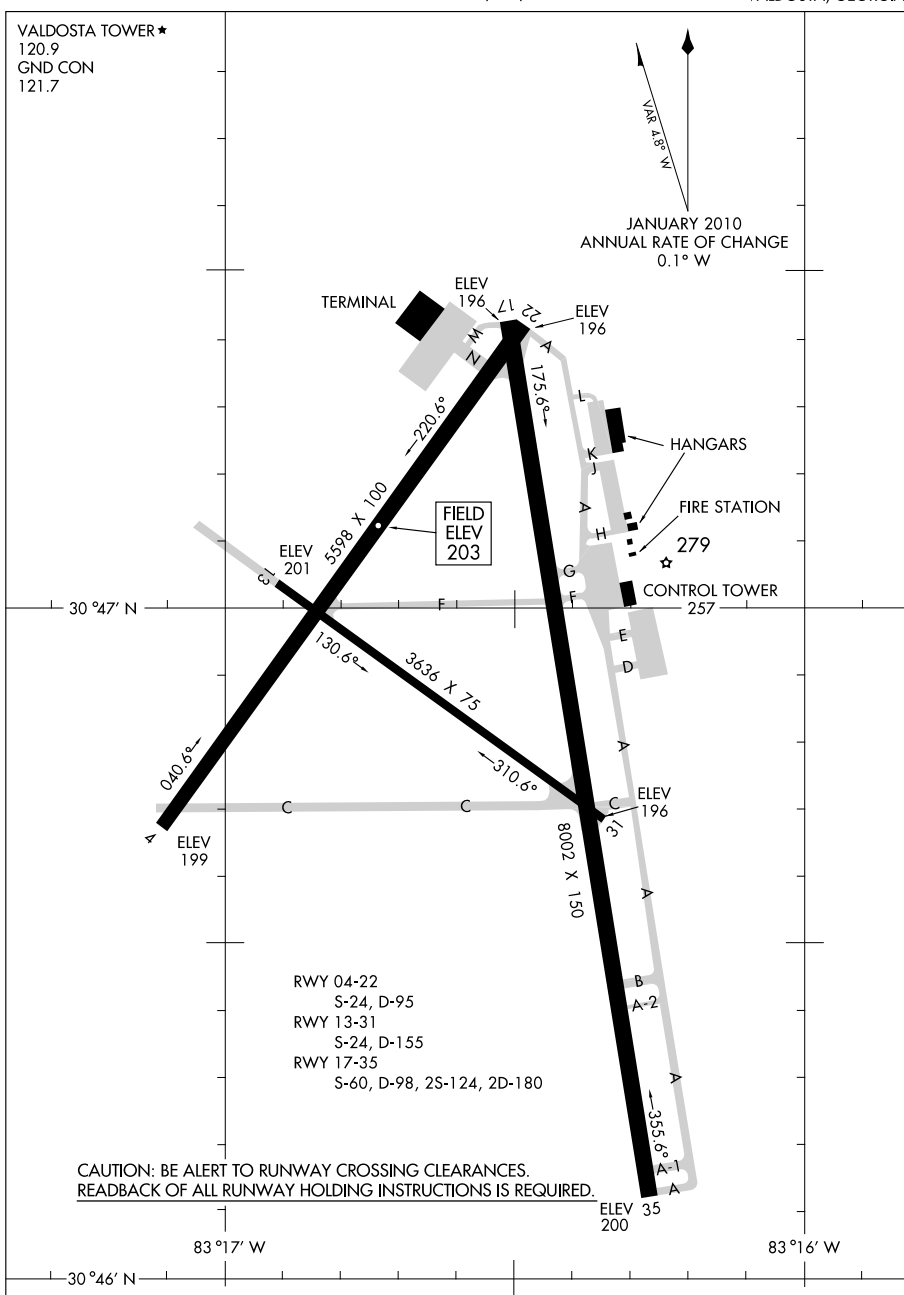
## AIRPORT DIAGRAM

AL-892 (FAA)

VALDOSTA RGNL (VLD)

VALDOSTA, GEORGIA

VALDOSTA TOWER ★  
120.9  
GND CON  
121.7



## AIRPORT DIAGRAM

10210

VALDOSTA, GEORGIA  
VALDOSTA RGNL (VLD)

SE, 23 SEP 2010 to 18 NOV 2010

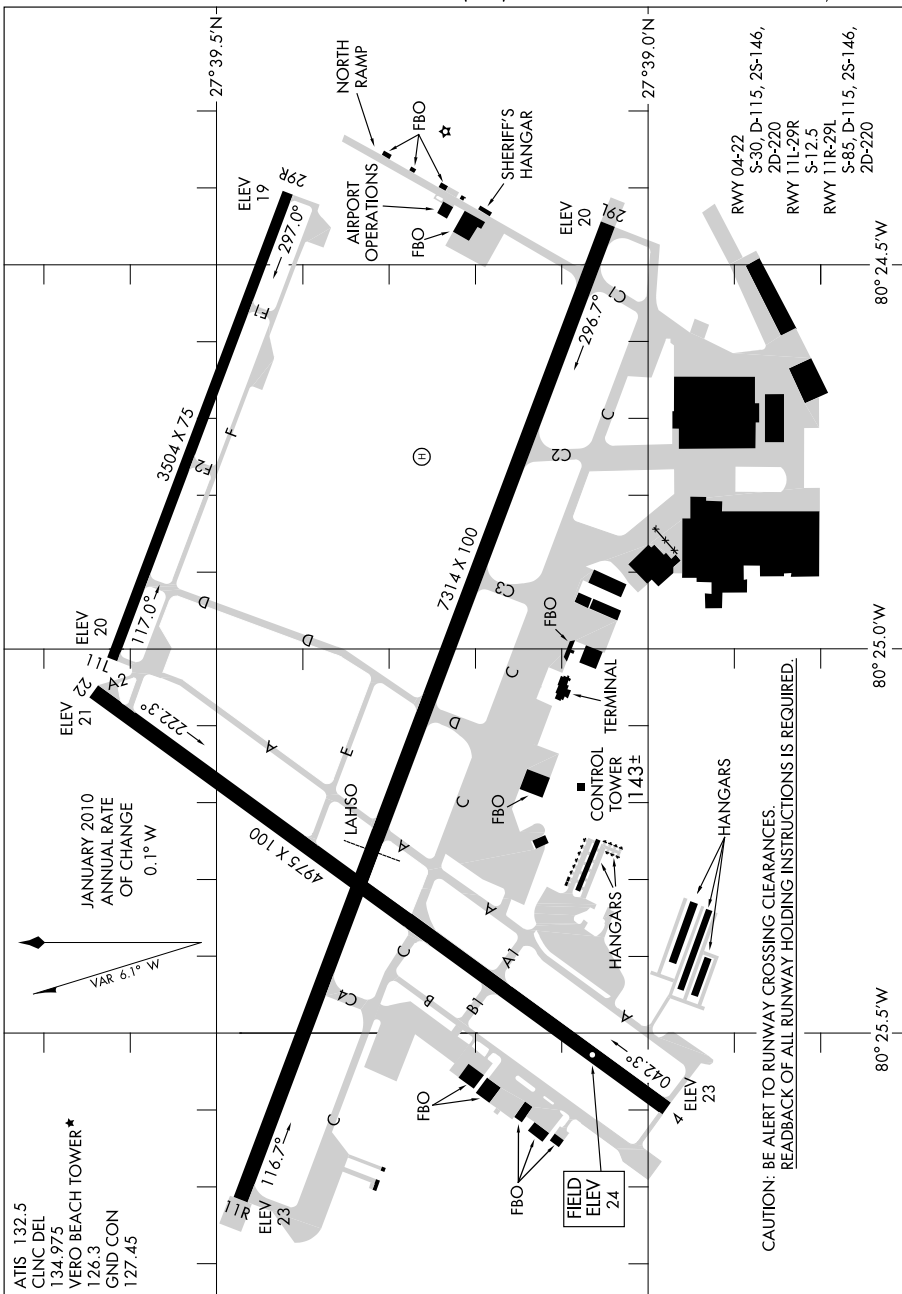
10210

# AIRPORT DIAGRAM

AL-437 (FAA)

VERO BEACH MUNI (VRB)

VERO BEACH, FLORIDA



# AIRPORT DIAGRAM

10210

VERO BEACH, FLORIDA

VERO BEACH MUNI (VRB)

SE. 23 SEP 2010 to 18 NOV 2010

## AIRPORT DIAGRAM

WEST PALM BEACH/PALM BEACH INTL (PBI)

WEST PALM BEACH, FLORIDA

**D**

26° 42' N -

JANUARY 2010  
ANNUAL RATE OF CHANGE  
0.1° W

182 

CAUTION: Pilots are cautioned not to mistake Twy L for Rwy 10L-28R or 10R-28L.

RWY 10L-28R  
S-85, D-200, 2S-175, 2D-400  
RWY 10R-28L  
S-25  
RWY 14-32  
S-100, D-180, 2S-175, 2D-325,  
2D/2D2-400

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

80° 06' W

80° 05' W

## AIRPORT DIAGRAM

WEST PALM BEACH, FLORIDA  
WEST PALM BEACH/PALM BEACH INTL (PBI)

10266

SE, 23 SEP 2010 to 18 NOV 2010

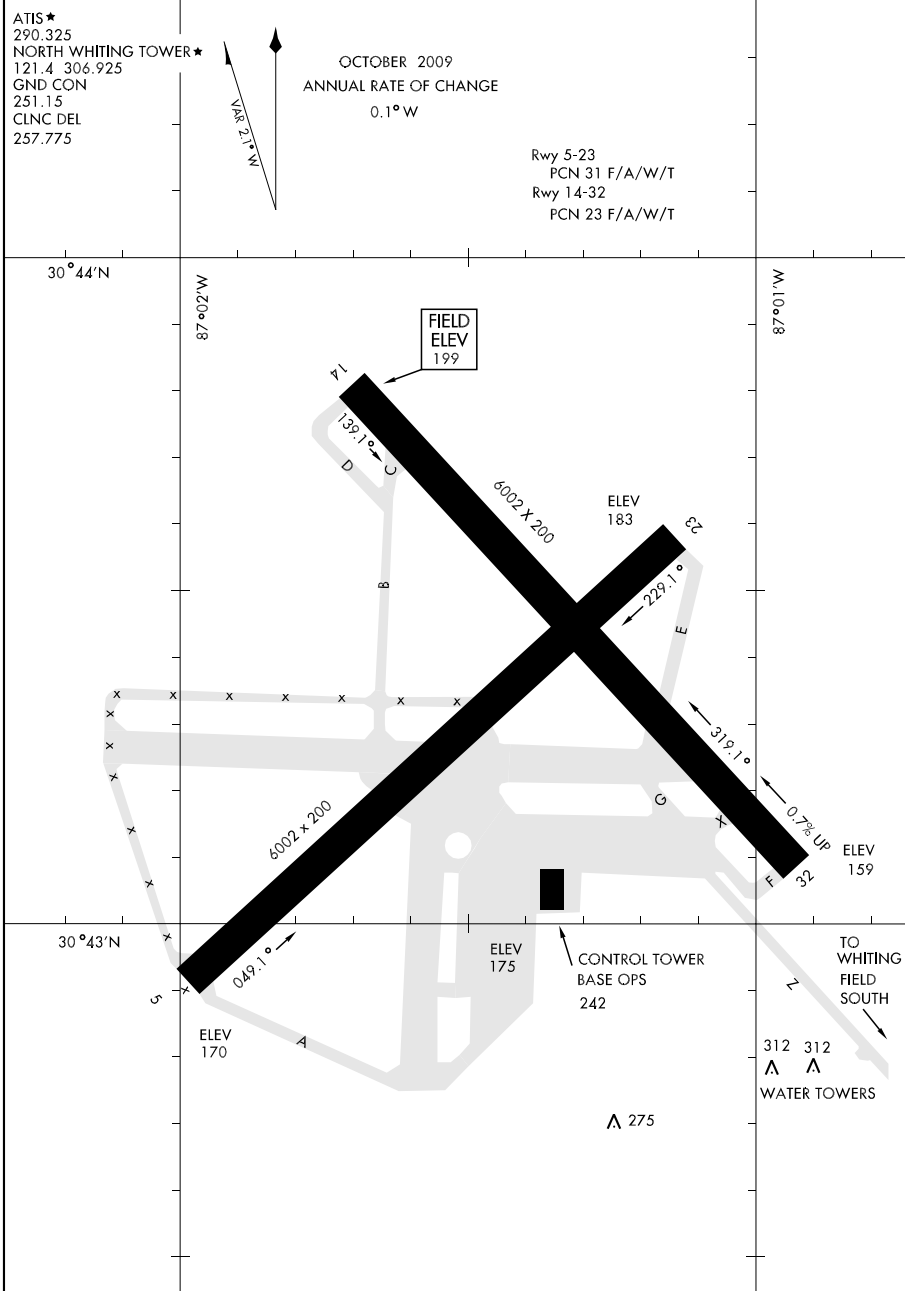
09295

## AIRPORT DIAGRAM

AFD-602 [USN]

WHITING FLD NAS (NORTH) (KNSE)

MILTON, FLORIDA



## AIRPORT DIAGRAM

MILTON, FLORIDA

WHITING FLD NAS (NORTH) (KNSE)

SE. 23 SEP 2010 to 18 NOV 2010

09295

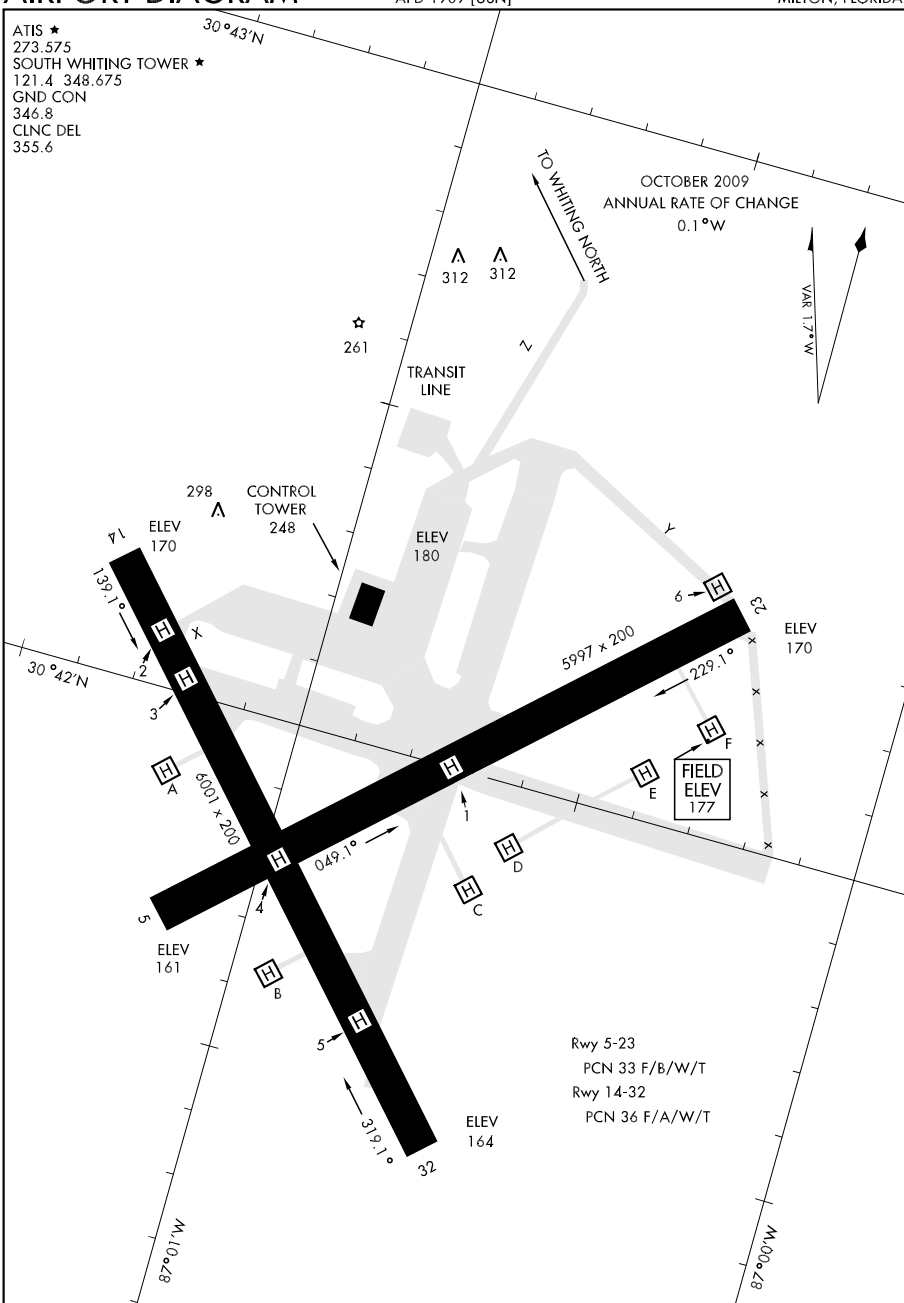
WHITING FLD NAS (SOUTH) (KNDZ)

## AIRPORT DIAGRAM

AFD-1909 [USN]

MILTON, FLORIDA

ATIS ★  
 273.575  
 SOUTH WHITING TOWER ★  
 121.4 348.675  
 GND CON  
 346.8  
 CLNC DEL  
 355.6



# AIRPORT DIAGRAM

MILTON, FLORIDA

WHITING FLD NAS (SOUTH) (KNDZ)

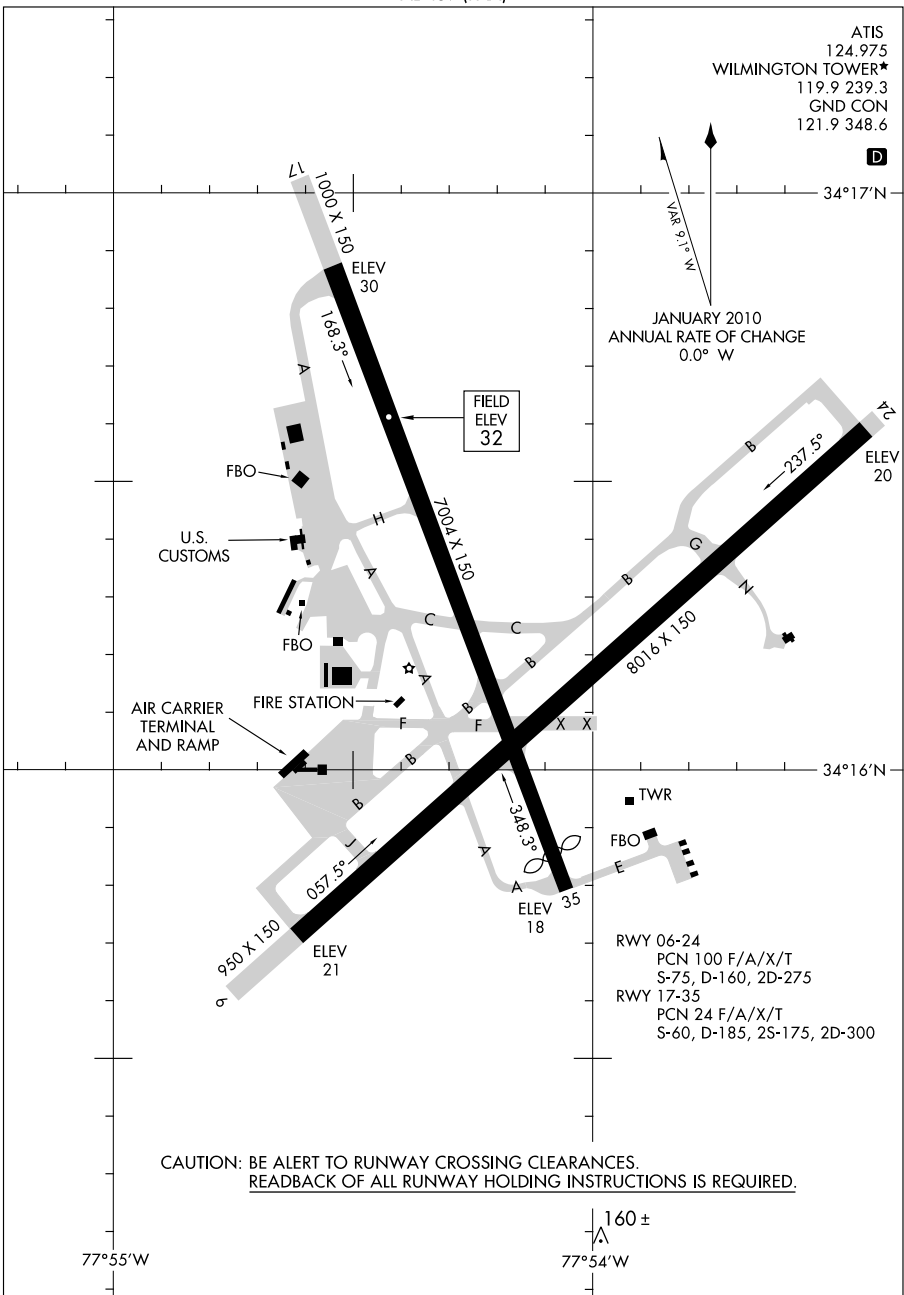
SE, 23 SEP 2010 to 18 NOV 2010

10210

# AIRPORT DIAGRAM

AL-459 (FAA)

WILMINGTON INTL (ILM)  
WILMINGTON, NORTH CAROLINA



# AIRPORT DIAGRAM

10210

WILMINGTON, NORTH CAROLINA  
WILMINGTON INTL (ILM)

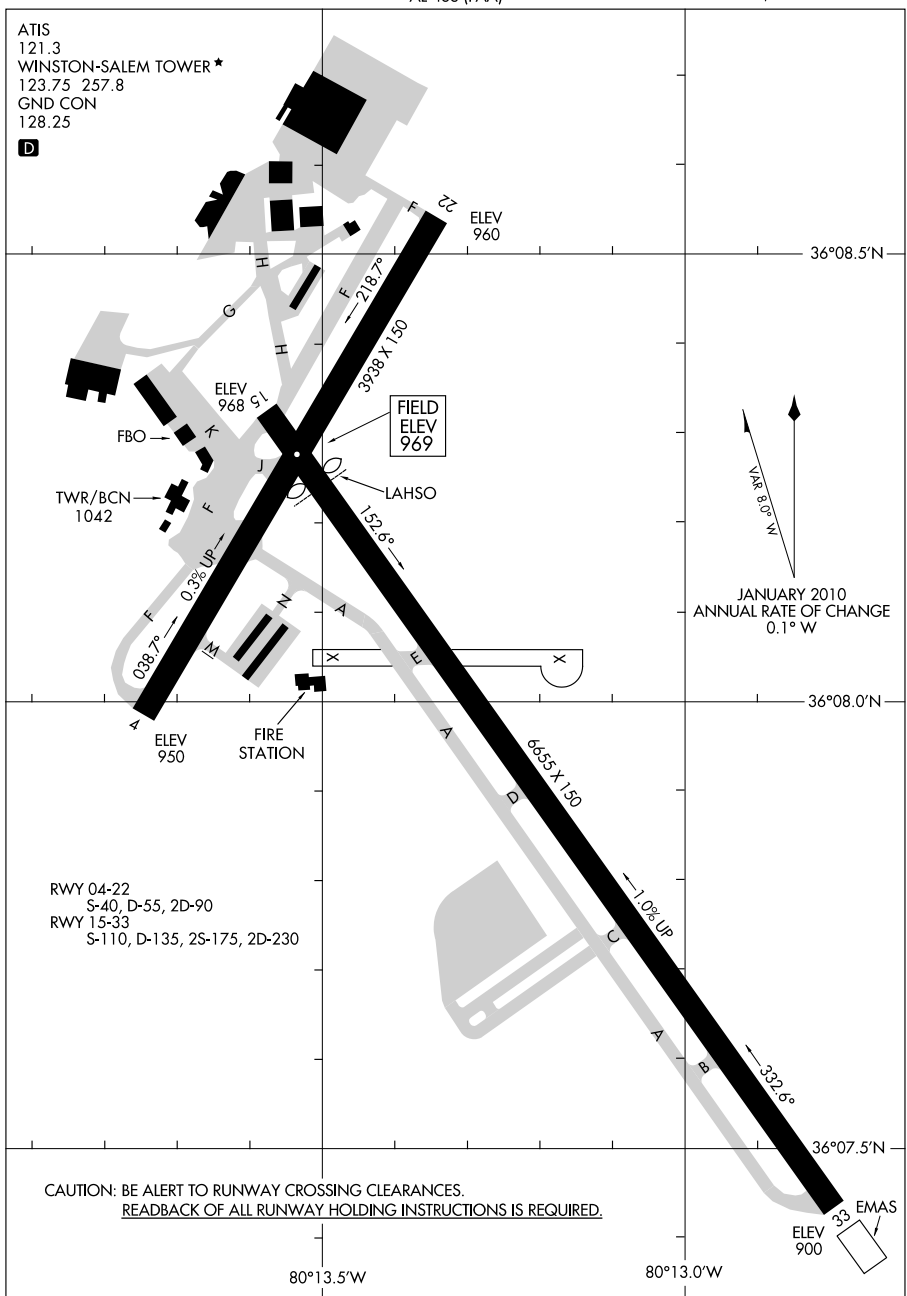
SE. 23 SEP 2010 to 18 NOV 2010

# AIRPORT DIAGRAM

WINSTON-SALEM /SMITH REYNOLDS (INT)  
WINSTON-SALEM, NORTH CAROLINA

AL-463 (FAA)

10266  
ATIS  
121.3  
WINSTON-SALEM TOWER ★  
123.75 257.8  
GND CON  
128.25



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

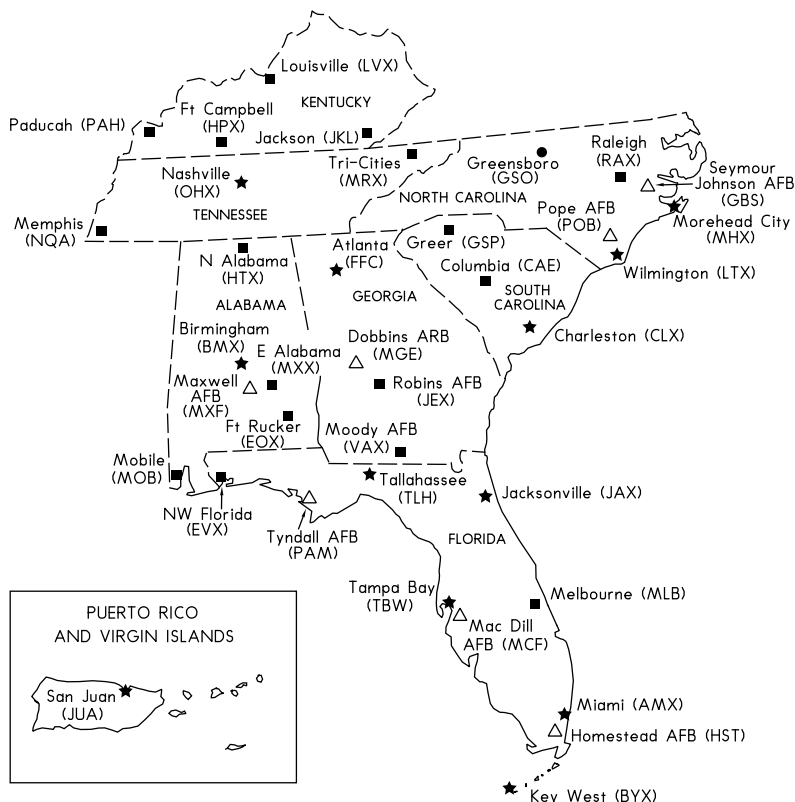
# AIRPORT DIAGRAM

WINSTON-SALEM, NORTH CAROLINA  
WINSTON-SALEM /SMITH REYNOLDS (INT)



**INTENTIONALLY  
LEFT  
BLANK**

# NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATIONS (UAOS) AND WEATHER RADAR NETWORK



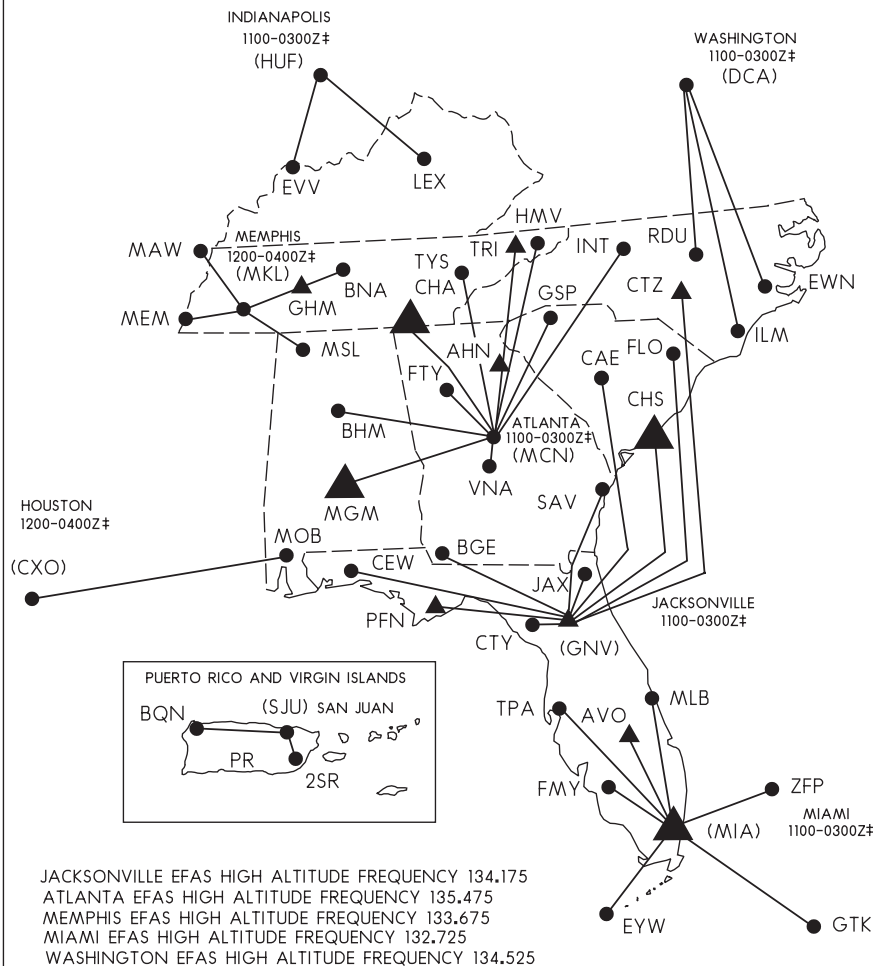
## LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

# ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services



- LOW ALTITUDE COMMUNICATIONS OUTLET (122.0)
- ▲ HIGH ALTITUDE COMMUNICATIONS OUTLET
- ▲ BOTH LOW AND HIGH ALTITUDE COMMUNICATIONS OUTLET